Australian Government
Department of Agriculture, Fisheries and Forestry

ABARES

Weekly Australian Climate, Water and Agricultural Update

No. 29/2023

27 July 2023

Summary of key issues

- For the week ending 26 July 2023, fronts brought some rainfall to southern Australia. A coastal trough brought rainfall to eastern Queensland. A high-pressure system kept the remainder of the country dry and clear.
- Across cropping regions, rainfall totals of up to 50 millimetres were recorded in central-north Queensland. These falls have likely benefited crop and pasture growth and built-up soil moisture reserves following widespread rainfall in early July. Elsewhere across Australia, falls of between 5 to 15 millimetres were recorded. This has likely only been enough to sustain crop and pasture growth but insufficient to build up soil moisture reserves. For remaining cropping regions, particularly in New South Wales, sufficient and timely rain will be required in the coming weeks and months to support at least average levels of winter crop production, following a gradual decline in soil moisture reserves (see Section 1.1).
- The Bureau of Meteorology's ENSO outlook remains at El Niño ALERT. Sea-surface temperatures in the Pacific have reached the El Niño thresholds but atmospheric indicators have returned to neutral range. There is also a strong possibility of a positive IOD event developing in late winter or early spring. A positive IOD can suppress winter and spring rainfall over much of Australia, potentially exacerbating the drying effect of El Niño (see Section 1.2).
- Drier than median conditions are expected in August to October for large areas of Australia. Across cropping regions, during August there is a 75% chance of rainfall totals of between 10 and 50 millimetres across southern and eastern New South Wales, and much of Victoria, South Australia and Western Australia. August rainfall totals are expected to be below 10 millimetres in the remaining cropping regions. During August to October 2023, below median rainfall is likely across cropping regions. There is 75% chance of receiving between 25 and 100 millimetres across most winter cropping regions, except for in Queensland where falls are expected to be below 25 millimetres. These falls are likely to be sufficient to support close to average plant growth. However, in areas with low soil moisture, such as Queensland and northern New South Wales these probable low three-month rainfall totals are unlikely to be sufficient to sustain average levels of crop and pasture production. Particularly as we enter the early months of spring, with higher temperatures and increased water demand for crops and pastures (see Section 1.3).
- Over the 8 days to 3 August 2023, a cold front is expected to bring showers to southern parts of the country early in the week. Onshore winds are expected to bring showers to coastal Queensland (see Section 1.4).
- Across cropping regions, rainfall totals of between 10 and 25 millimetres are expected in Western Australia, while falls of between 5 and 15 millimetres are expected in southern Victoria and isolated areas of New South Wales. If these falls eventuate as forecast, they are likely to be sufficient to support crop and pasture growth and development (see Section 1.4).
- Water storage levels in the Murray-Darling Basin (MDB) decreased between 20 July 2023 and 27 July 2023 by 3830 gigalitres (GL). Current volume of water held in storage is 17 032 GL. This is 17 percent or 3495 GL less than at the same time last year.
- Allocation prices in the Victorian Murray below the Barmah Choke increased from $100 on 20 July 2023 to $118 on 27 July 2023. Prices are lower in the Goulburn-Broken and regions above the Barmah choke due to the binding of the Goulburn intervalley trade limit and Barmah choke trade constraint.

1. Climate

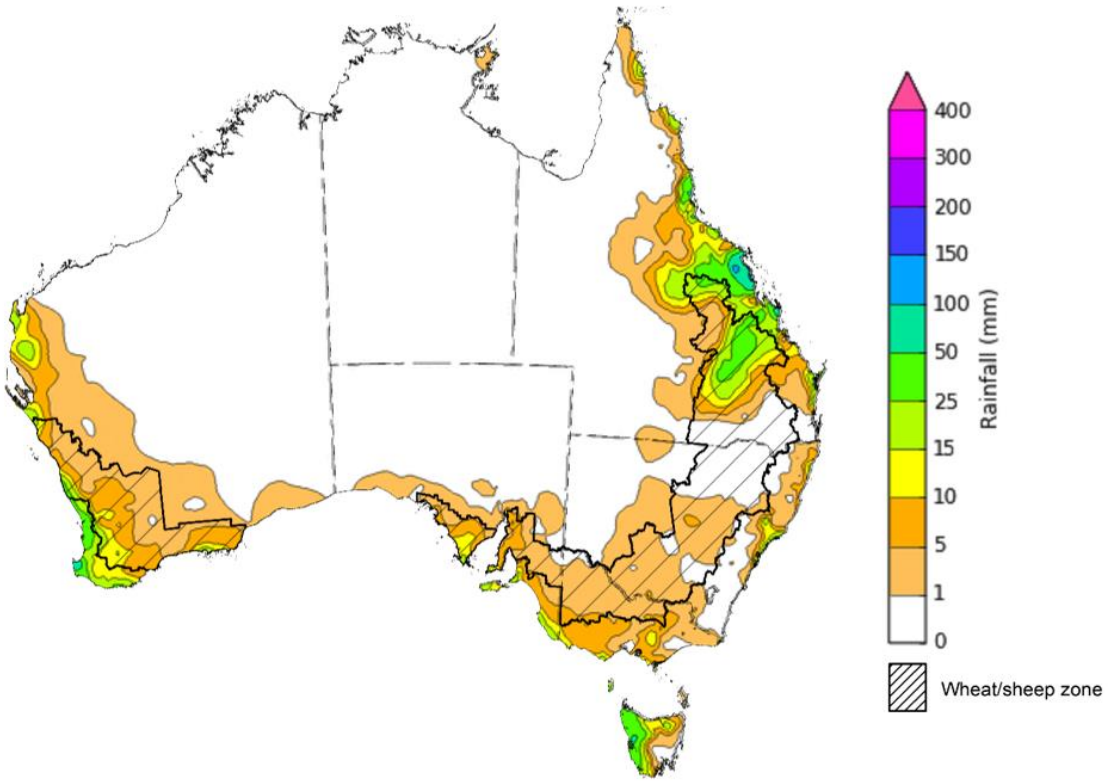
1.1. Rainfall this week

For the week ending 26 July 2023, fronts brought some rainfall to southern Australia. A coastal trough brought rainfall to eastern Queensland. A high-pressure system kept the remainder of the country dry and clear.

Across cropping regions, rainfall totals of up to 50 millimetres were recorded in central-north Queensland. These falls have likely benefited crop and pasture growth and built-up soil moisture reserves following widespread rainfall in early July. Elsewhere, falls of between 5 to 15 millimetres were recorded. This has likely only been enough to sustain crop and pasture growth but insufficient to build up soil moisture reserves.

For remaining cropping regions, the clear dry conditions would have allowed for unimpeded field access to undertake pest and weed management and fertilizer top dressing of crops and pasture. These regions, particularly in New South Wales will require sufficient and timely rain in the coming weeks and months to support at least average levels of winter crop production, following a gradual decline in soil moisture reserves.

Rainfall for the week ending 26 July 2023



 Issued: 26/7/2023

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. 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/

1.2. Climate Drivers

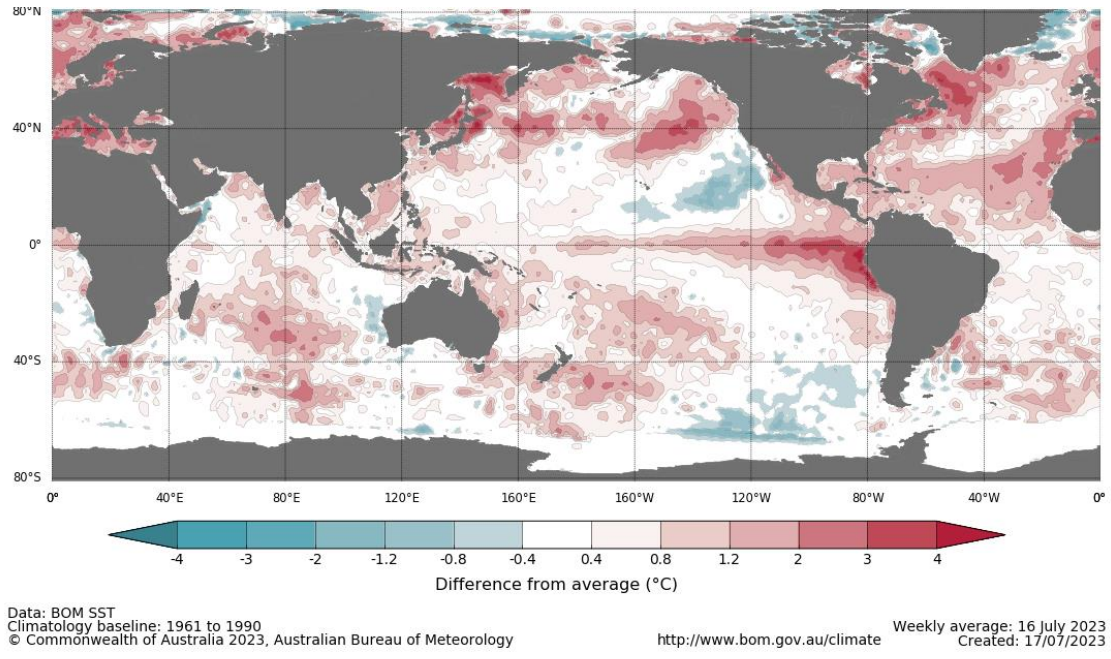
The climate drivers with the largest potential impact on Australia's climate patterns are the El Niño–Southern Oscillation (ENSO), Madden-Julian Oscillation (MJO), Indian Ocean Dipole (IOD) and Southern Annular Mode (SAM). These climate drivers are likely to influence pasture growth across southern Australia and the growth and yield prospects for winter crops.

The Madden–Julian Oscillation (MJO) pulse is currently over the western Pacific. This may contribute to El Niño development. At this time of the year MJO has little influence on northern Australia rainfall.

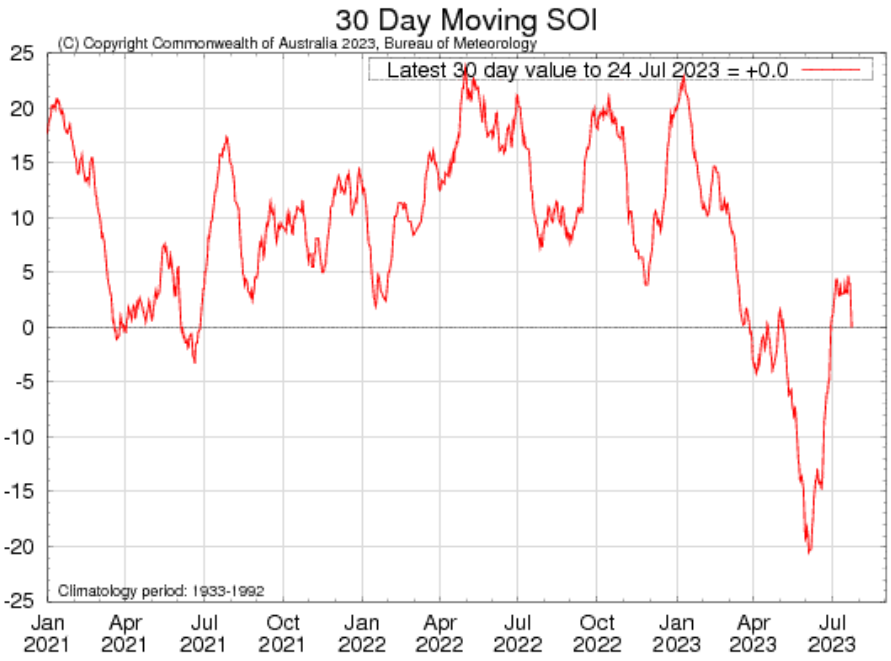
The Bureau of Meteorology's ENSO outlook remains at El Niño ALERT, indicating that there is a 70% chance of El Niño developing in 2023. Oceanic indicators are measured in terms of the sea surface temperature (SST) anomalies, which have warmed to El Niño thresholds. For the week ending 16 July, SST anomalies were warmer than average over the central and eastern equatorial Pacific Ocean, with anomalies over 4°C in the far east. SST anomalies have also been over 4°C off the Queensland coastline. Typically, during El Niño events, waters off of eastern Australia are cooler than average, pushing moisture flow from this region away from Australia. All models surveyed by the Bureau of Meteorology indicate the likelihood of further warming and the warm SSTs will remain above El Niño thresholds until at least end of the year.

Atmospheric indicators are measured in terms of the surface air pressure difference between Tahiti and Darwin, called the Southern Oscillation Index (SOI), the direction and strength of the trade winds and cloudiness at the date line. Some atmospheric indicators such as the SOI have returned to neutral range. For the period ending 16 July 2023, the 30-day SOI was +3.9, the 60-day SOI was -4.8, and the 90-day SOI was -5.2. The 30-day values have remained fairly steady over the past 3 weeks. Additionally, winds, clouds and broadscale pressure patterns indicate that the ocean and atmosphere are yet to reinforce each other, as occurs during El Niño events. This is primarily due to the SSTs being warm globally. For Bureau of Meteorology to declare an El Niño, the contrast in SST between eastern and western Pacific has to be significant in order to drive the changes in wind patterns and surface pressure.

Difference from average sea surface temperature observations 10 July to 16 July 2023

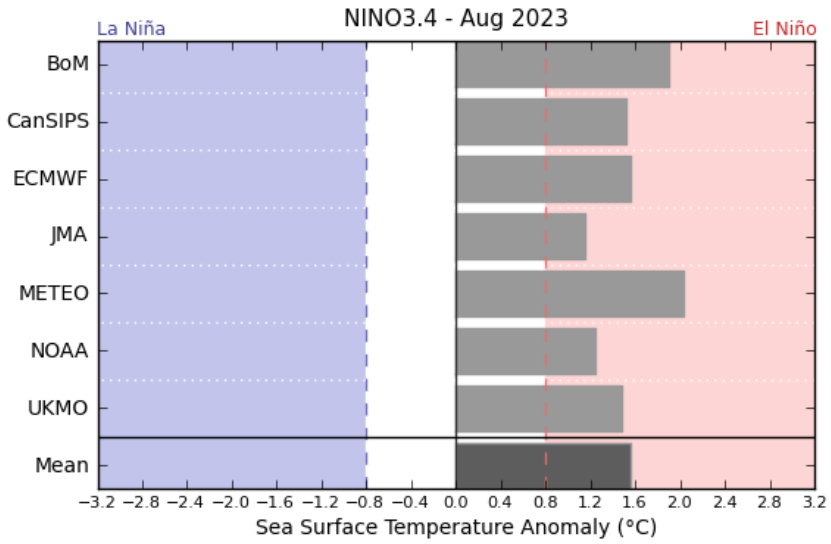


30-day Southern Oscillation Index (SOI) values ending 24 July 2023



All international climate model surveyed by the Australian Bureau of Meteorology indicate the SST anomaly values will remain above El Niño threshold levels through spring and at least to the end of 2023. Note: the World Meteorological Organisation and other international agencies have declared that an El Niño event has already become established.

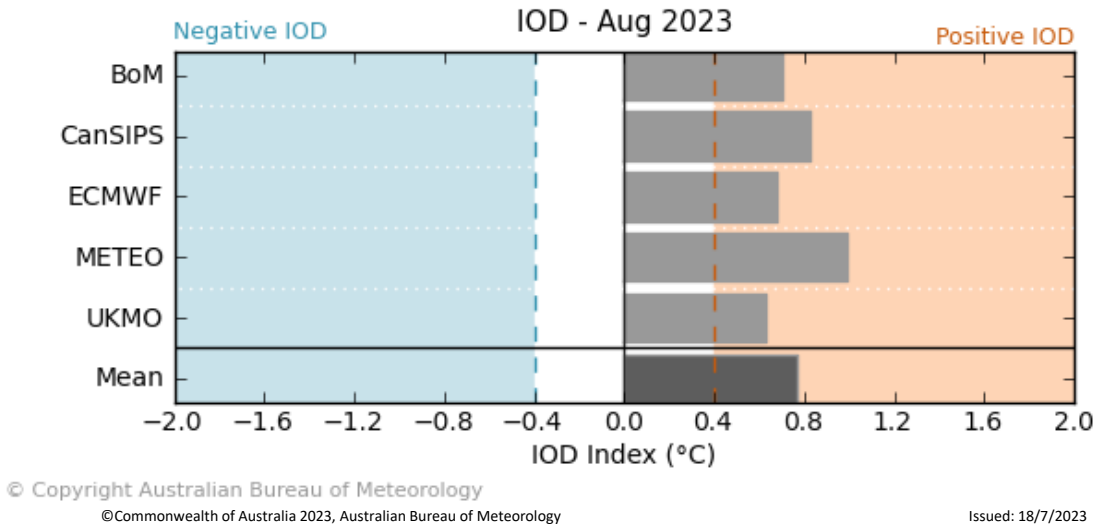
International climate model outlooks for the ENSO in NINO 3.4 region



Issued: 18/7/2023

The Indian Ocean Dipole (IOD) is currently neutral with an index value of -0.12°C for the week ending 16 July. Weekly sea surface temperatures (SSTs) for the period ending 16 July are above average across large areas of the tropical and southern Indian Ocean, especially in the mid-latitudes where anomalies are up to 4°C warmer than average. Off the Horn of Africa, a small area of cool anomalies persists. Closer to Australia, SSTs are close to average south of the Maritime Continent and continue to be cooler than average around the western and southern coasts of the mainland. All international climate models surveyed by the Bureau of Meteorology suggest that threshold values for a positive IOD event are likely to be reached in late winter or early spring. A positive IOD can supress winter and spring rainfall over much of central and south-eastern Australia, potentially exacerbating any drying effect of El Niño.

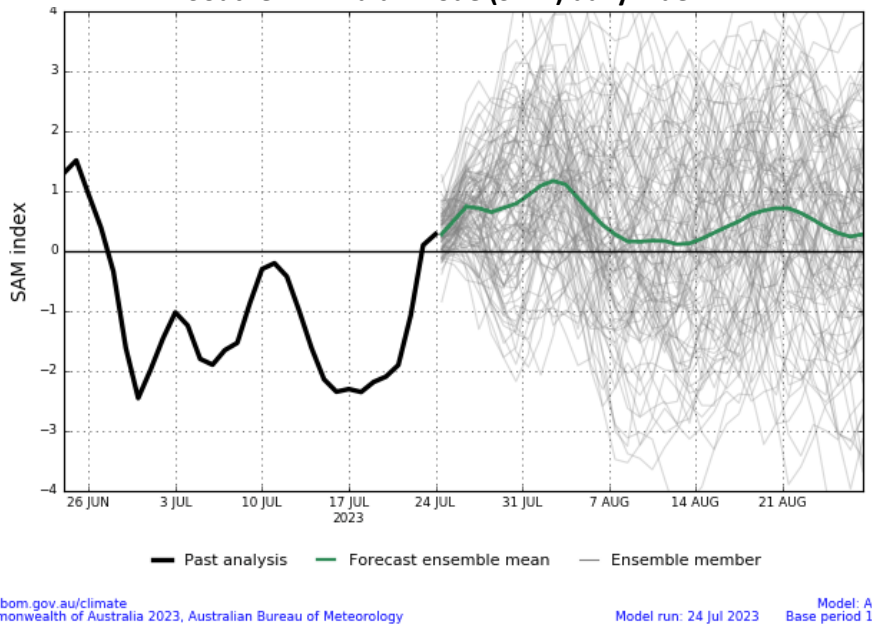
International climate model outlook for the Indian Ocean Dipole



 Issued: 18/7/2023

The Southern Annular Mode (SAM) index is currently neutral and is expected to remain at neutral levels for next few weeks. A neutral SAM has little influence on Australian climate.

Southern Annular Mode (SAM) daily index



www.bom.gov.au/climate

Model run: 24 Jul 2023
Model: ACCESS-S2
Base period 1990-2012

1.3. National Climate Outlook

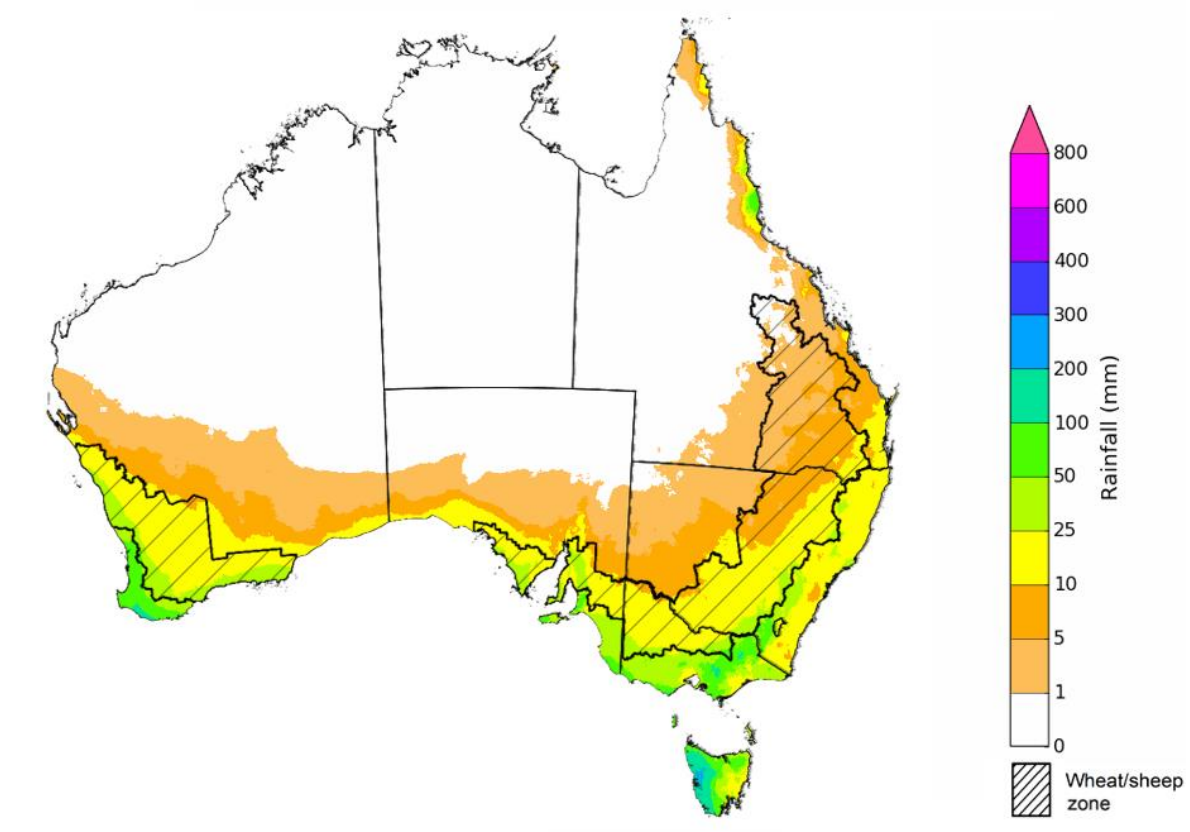
These climate outlooks are generated by ACCESS–S (Australian Community Climate Earth-System Simulator–Seasonal). ACCESS–S is the Bureau of Meteorology's dynamic (physics-based) weather and climate model used for monthly, seasonal, and longer-lead climate outlooks. For further information, go to http://www.bom.gov.au/climate/ahead/about/.

The Bureau of Meteorology's latest rainfall outlook for August 2023 indicates drier than average conditions are expected across large areas of central and southern Australia.

The ACCESS-S climate model suggests that there is a 75% chance of rainfall totals between 10 and 50 millimetres across eastern New South Wales, scattered areas of coastal Queensland, much of Victoria and Tasmania, southern South Australia, and southwest Western Australia. Rainfall totals in excess of 100 millimetres are expected across western Tasmania, far southwest Western Australia and alpine areas of Victoria.

Across cropping regions, there is a 75% chance of rainfall totals of between 10 and 50 millimetres across southern and eastern New South Wales, and much of Victoria, South Australia and Western Australia. August rainfall totals are expected to be below 10 millimetres in the remaining cropping regions.

Rainfall totals that have a 75% chance of occurring in August 2023

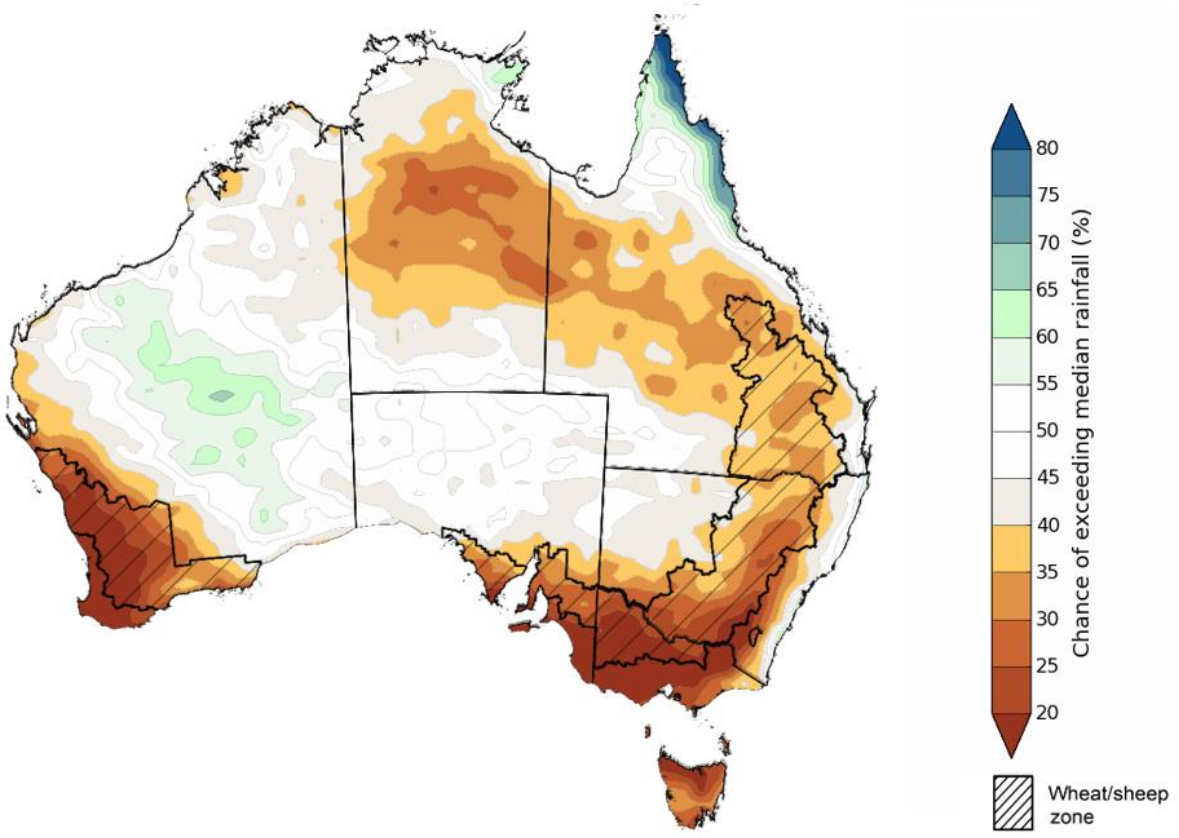


Issued: 27/07/2023

The rainfall outlook for August to October 2023 suggests that above median rainfall is likely to very likely (60% to greater than 80% chance) across large areas in central Western Australia and coastal tropical Queensland. There is close to equal chances of above or below median rainfall for parts of northern Western Australia, across much of South Australia, northwest New South Wales, and northern and southern parts of Northern Territory and Queensland. However, below average rainfall is more likely in across large areas of central Northern Territory to eastern Queensland and in large areas of New South Wales, southern South Australia, southwest Western Australia and across Victoria and Tasmania.

Across cropping regions, below median rainfall is more likely through the August to October period.

Chance of exceeding the median rainfall August to October 2023

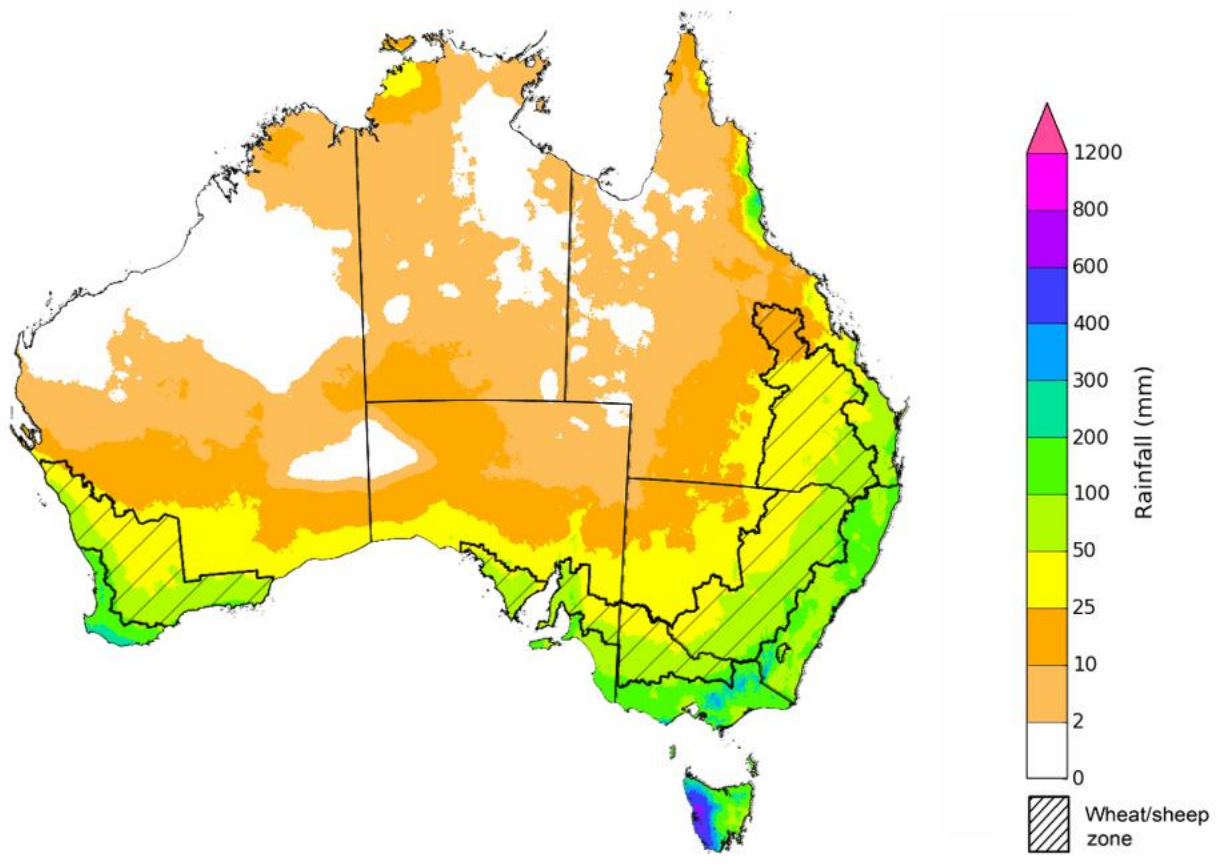


Issued: 27/07/2023

The outlook for August to October 2023 suggests there is a 75% chance of rainfall totals between 25 and 100 millimetres across much of New South Wales, Victoria and Tasmania, parts of south-eastern and coastal Queensland, and southern parts of South Australia and Western Australia. Rainfall totals in excess of 200 millimetres are forecast for alpine regions of Victoria and New South Wales, the far southwest of Western Australia and western Tasmania.

There is a 75% chance of receiving between 25 and 100 millimetres across most winter cropping regions, except for northern cropping regions in Queensland where falls are expected to be below 25 millimetres. These falls are likely to be sufficient to support close to average plant growth. However, in areas with low soil moisture, such as southern Queensland, north-western New South Wales and northern and eastern Western Australia these probable low three-month rainfall totals are unlikely to be sufficient to sustain average levels of crop and pasture production. Particularly as we enter the early months of spring, with higher temperatures and increased water demand for crops and pastures.

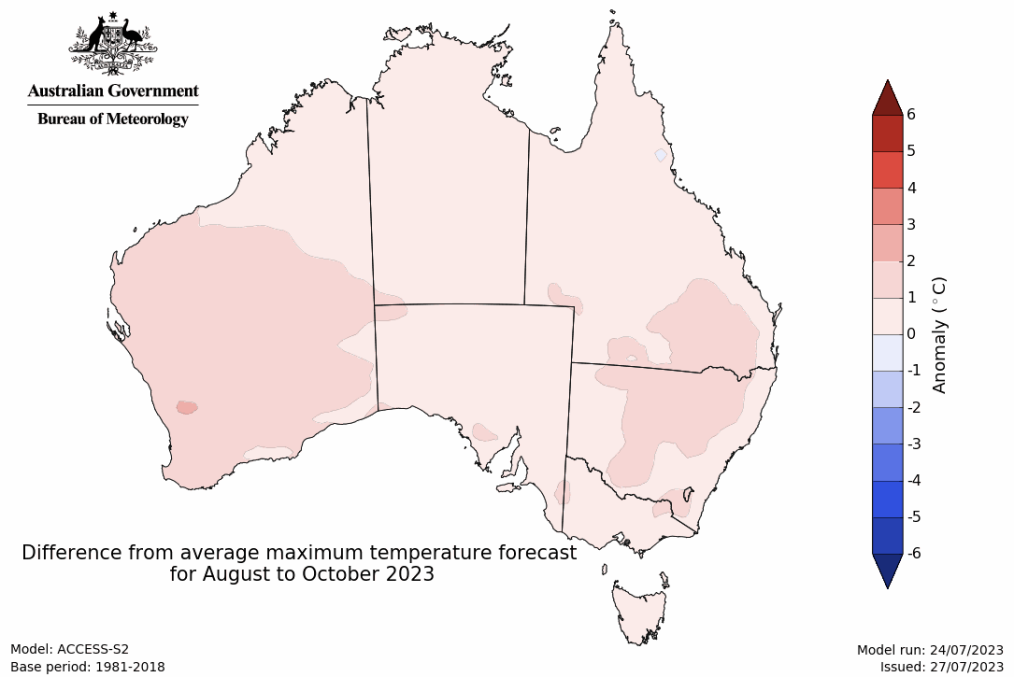
Rainfall totals that have a 75% chance of occurring August to October 2023



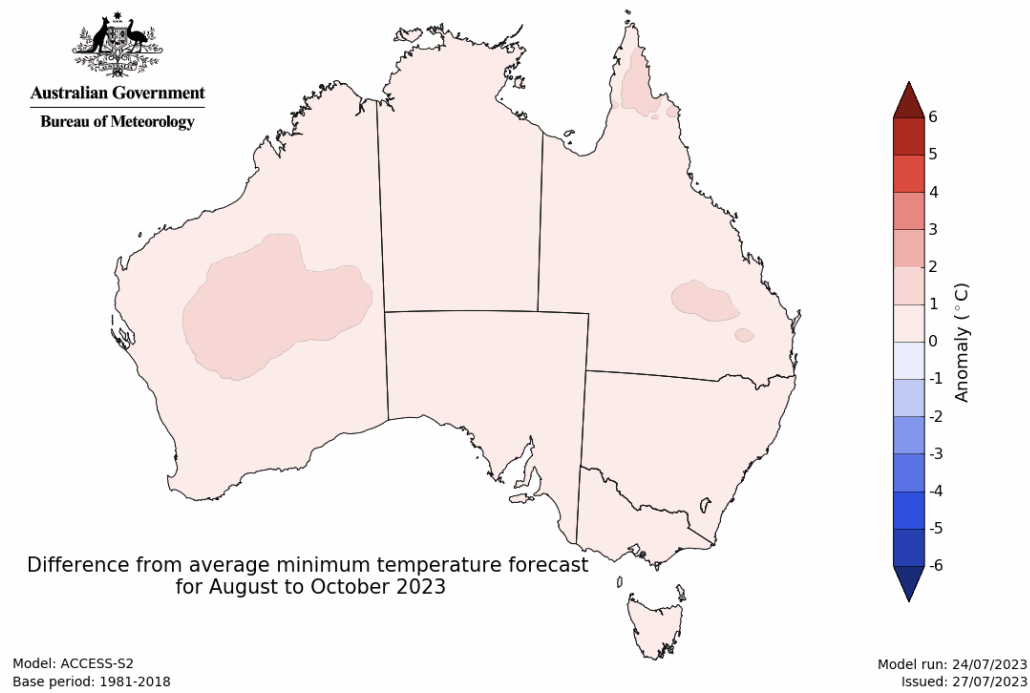
Issued: 27/07/2023

The temperature outlook for August to October 2023 indicates that maximum temperatures across northern Australia, most of South Australia, the east coast, Victoria and Tasmania are likely to be close to the 1990–2012 average (-1°C to +1°C). Meanwhile maximum temperatures are expected to be warmer than average (above +1°C) across much of the remainder of southern Australia. Minimum temperatures are expected to be close to the 1990–2012 average (-1°C to +1°C) across most of Australia. The night-time temperatures in central parts of Western Australia are likely to be warmer that average (above +1°C).

Predicted maximum temperature anomaly for August to October 2023



Predicted minimum temperature anomaly for August to October 2023

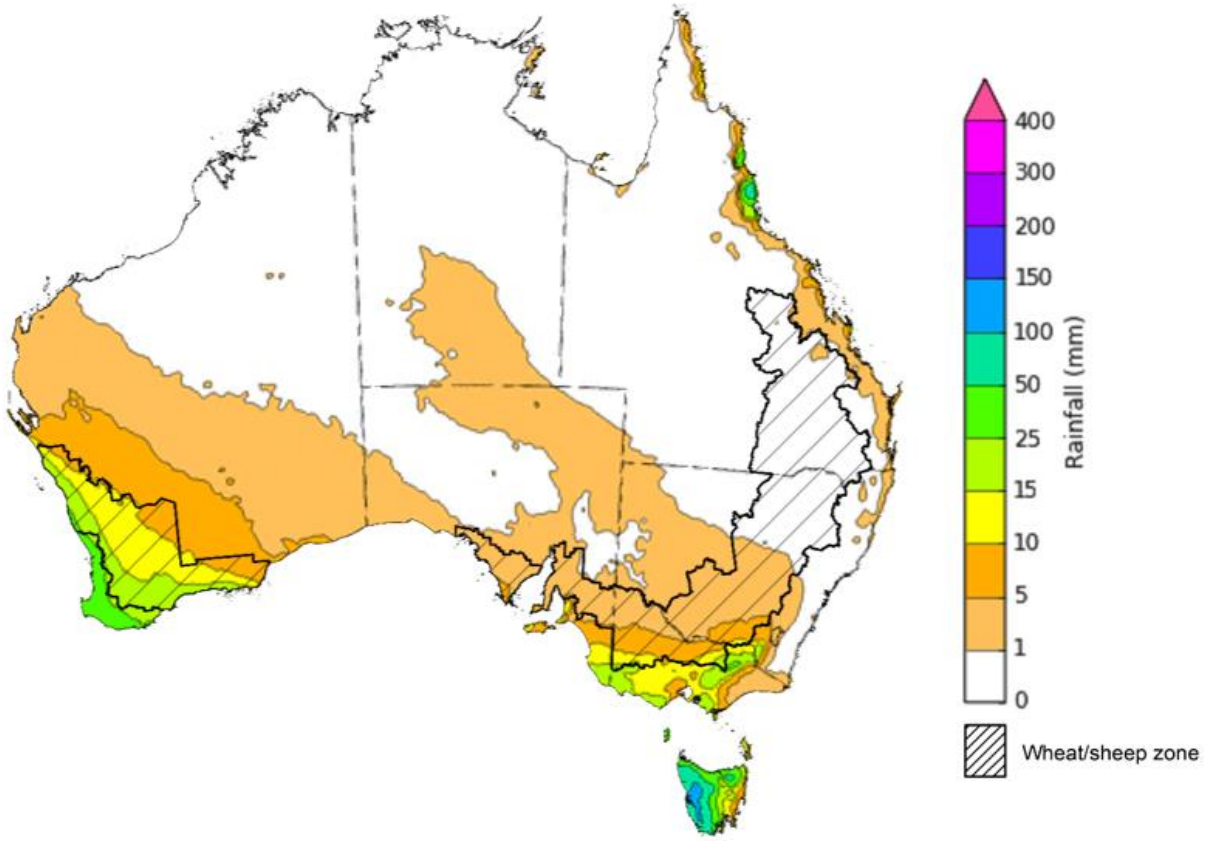


1.4. Rainfall forecast for the next eight days

Over the 8-days to 3 August 2023, a cold front is expected to bring showers to southern parts of the country early in the week. Onshore winds are expected to bring showers to coastal Queensland. A high-pressure system is expected to bring mainly dry conditions to the remainder of the country.

Across cropping regions, rainfall totals of between 10 and 25 millimetres are expected in Western Australia, while falls of between 5 and 15 millimetres are expected in southern Victoria and isolated areas of New South Wales. If these falls eventuate as forecast, they are likely to be sufficient to support crop and pasture growth and development.

Total forecast rainfall for the period 27 July 2023 to 3 August 2023



 Issued 27/7/2023

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.

2. Water

2.1. Water markets – current week

Water storage levels in the Murray-Darling Basin (MDB) decreased between 20 July 2023 and 27 July 2023 by 3830 gigalitres (GL). Current volume of water held in storage is 17 032 GL. This is 17 percent or 3495 GL less than at the same time last year.

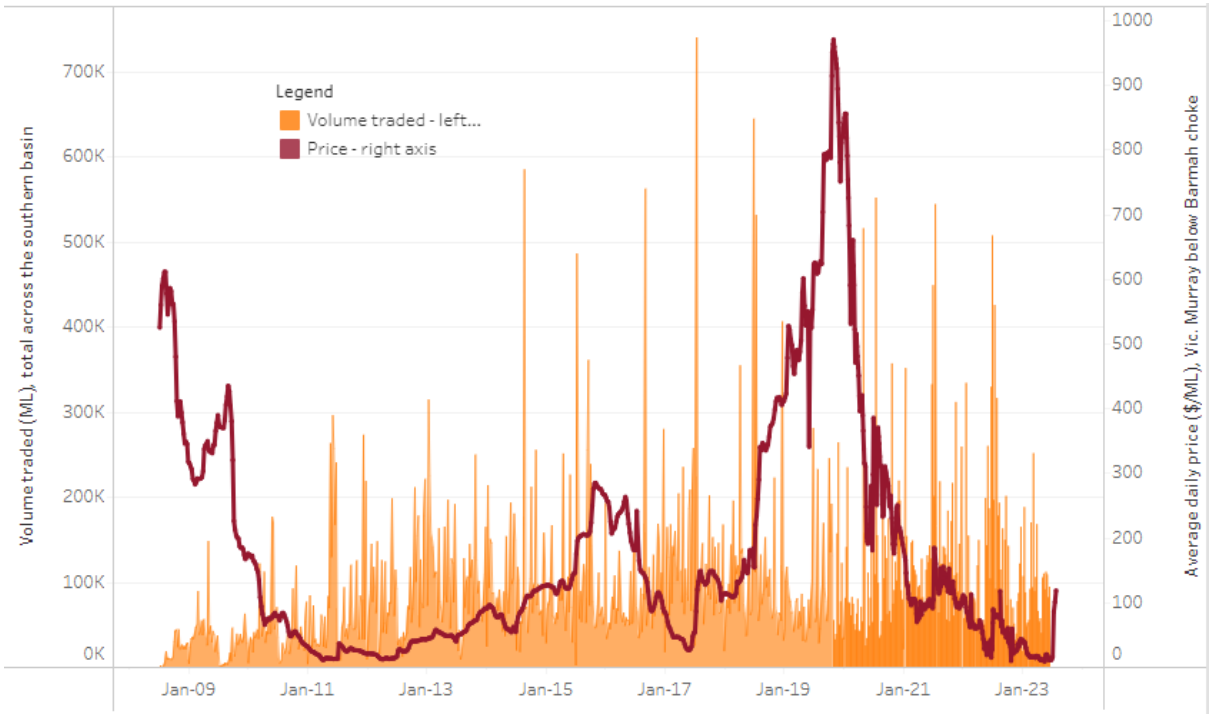
Water storages in the Murray-Darling Basin, 2013–2023

Water storage data is sourced from the Bureau of Meteorology.

Allocation prices in the Victorian Murray below the Barmah Choke increased from $100 on 20 July 2023 to $118 on 27 July 2023. Prices are lower in the Goulburn-Broken and regions above the Barmah choke due to the binding of the Goulburn intervalley trade limit and Barmah choke trade constraint.

Region	$/ML
NSW Murray Above	32
NSW Murrumbidgee	114
VIC Goulburn-Broken	82
VIC Murray Below	118

Surface water trade activity, Southern Murray–Darling Basin



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 27 July 2023.

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/weeakly-update-27723

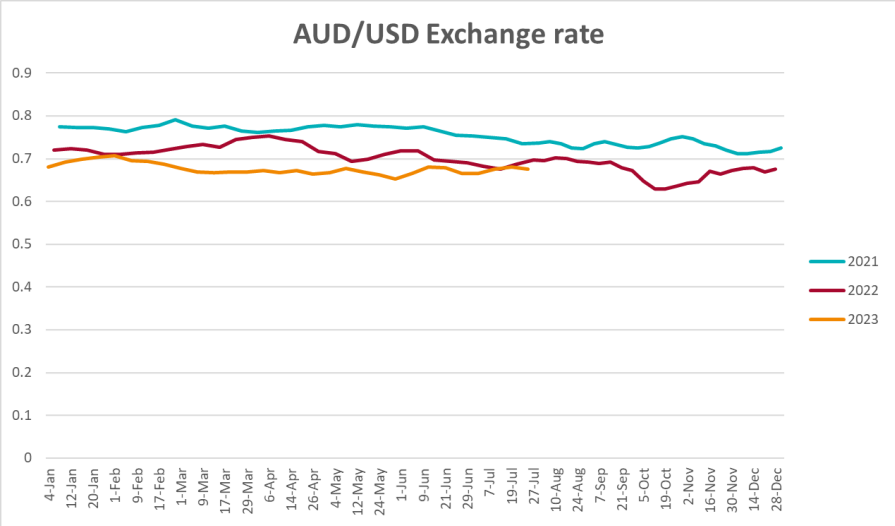
3. Commodities

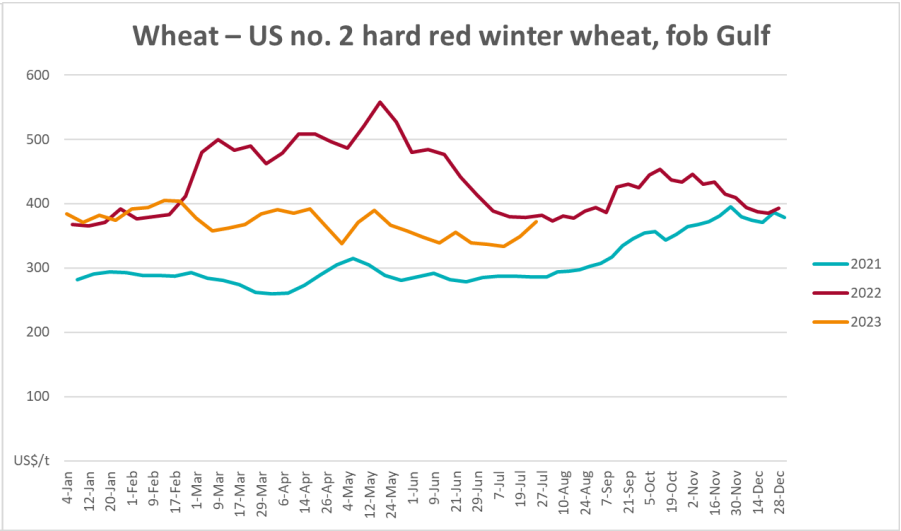
Indicator	Week ended	Unit	Latest Price	Previous Week	Weekly change	Price 12 months ago	Annual change
Selected world indicator prices							
AUD/USD Exchange rate	26-Jul	A$/US$	0.67	0.68	-1%	0.70	-3%
Wheat – US no. 2 hard red winter wheat, fob Gulf	26-Jul	US$/t	372	349	7%	374	0%
Corn – US no. 2 yellow corn, fob Gulf	26-Jul	US$/t	240	227	6%	284	-15%
Canola – Rapeseed, Canada, fob Vancouver	26-Jul	US$/t	664	671	-1%	715	-7%
Cotton – Cotlook 'A' Index	26-Jul	USc/lb	96	93	4%	118	-18%
Sugar – Intercontinental Exchange, nearby futures, no.11 contract	26-Jul	USc/lb	24.9	24.4	2%	18	40%
Wool – Eastern Market Indicator	05-Jul	Ac/kg clean	1,179	1,162	1%	1,414	-17%
Wool – Western Market Indicator	05-Jul	Ac/kg clean	1,339	1,320	1%	1,421	-6%
Selected Australian grain export prices							
Milling Wheat – APW, Port Adelaide, SA	26-Jul	A$/t	467	456	2%	571	-18%
Feed Wheat – ASW, Port Adelaide, SA	26-Jul	A$/t	444	433	3%	531	-16%
Feed Barley – Port Adelaide, SA	26-Jul	A$/t	354	350	1%	491	-28%
Canola – Kwinana, WA	26-Jul	A$/t	852	836	2%	1,121	-24%
Grain Sorghum – Brisbane, QLD	26-Jul	A$/t	482	474	2%	432	12%
Selected domestic livestock indicator prices							
Beef – Eastern Young Cattle Indicator	26-Jul	Ac/kg cwt	572	572	0%	957	-40%
Mutton – Mutton indicator (18–24 kg fat score 2–3), Vic	26-Jul	Ac/kg cwt	304	327	-7%	627	-52%
Lamb – Eastern States Trade Lamb Indicator	19-Jul	Ac/kg cwt	480	547	-12%	757	-37%
Pig – Eastern Seaboard (60.1–75 kg), average of buyers & sellers	12-Jul	Ac/kg cwt	357	357	0%	377	-5%
Goats – Eastern States (12.1–16 kg)	07-Jun	Ac/kg cwt	324	330	-2%	838	-61%

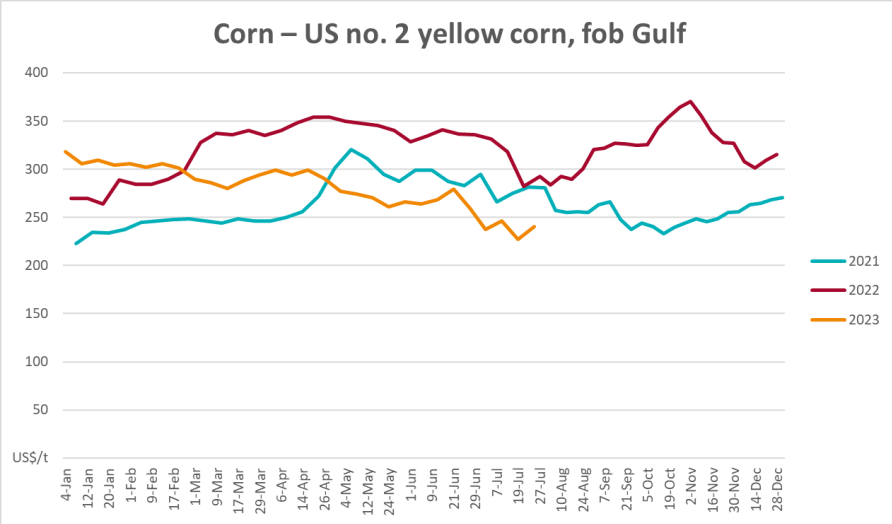
Live cattle – Light steers ex Darwin to Indonesia	17-Aug-22	Ac/kg lwt	420	480	-13%	320	31%
Live sheep – Live wethers (Muchea WA saleyard) to Middle East	14-Sep-22	$/head	93	113	-18%	114	-18%
Global Dairy Trade (GDT) weighted average prices [a]							
Dairy – Whole milk powder	19-Jul	US$/t	3,100	3,149	-2%	3,961	-22%
Dairy – Skim milk powder	19-Jul	US$/t	2,503	2,525	-1%	4,063	-38%
Dairy – Cheddar cheese	19-Jul	US$/t	3,955	4,386	-10%	4,908	-19%
Dairy – Anhydrous milk fat	19-Jul	US$/t	4,745	4,579	4%	5,706	-17%

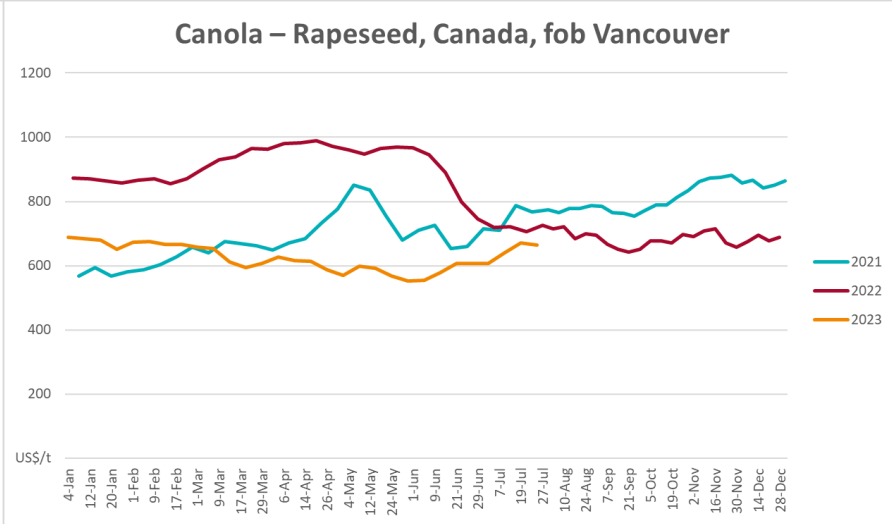
a Global Dairy Trade prices are updated twice monthly on the first and third Tuesday of each month.

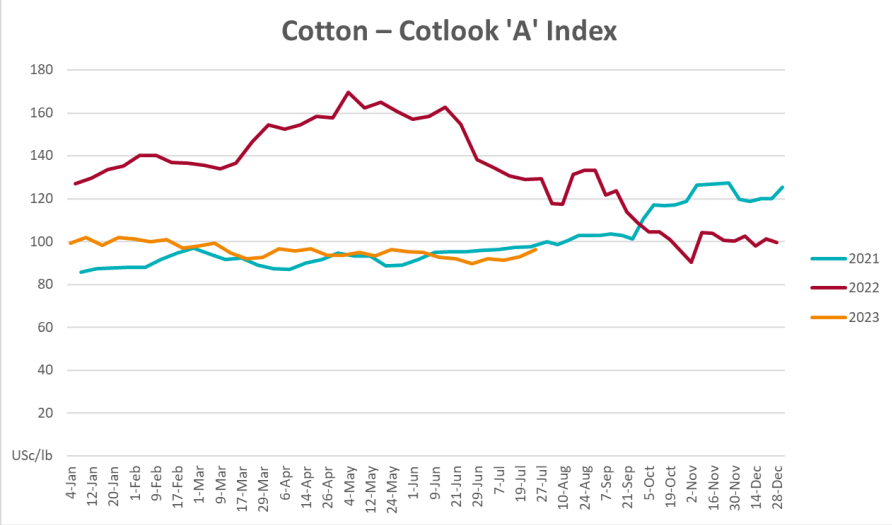
3.1. Selected world indicator prices

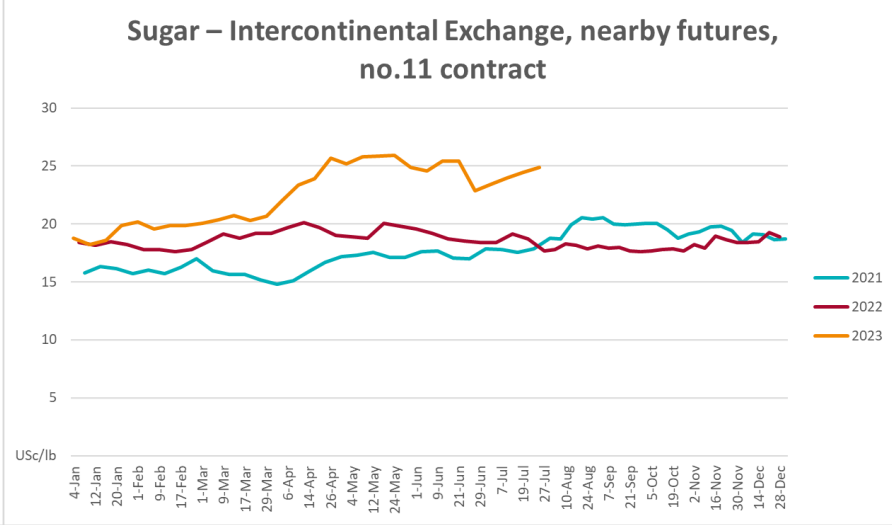


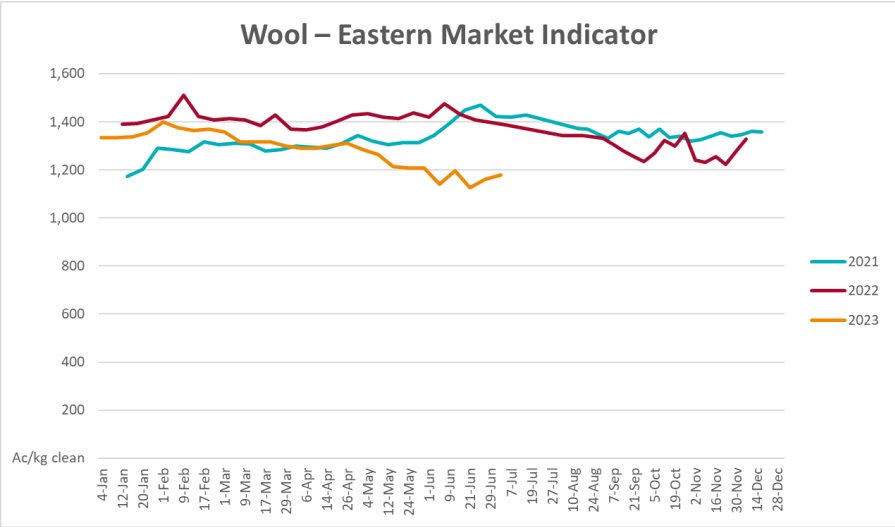


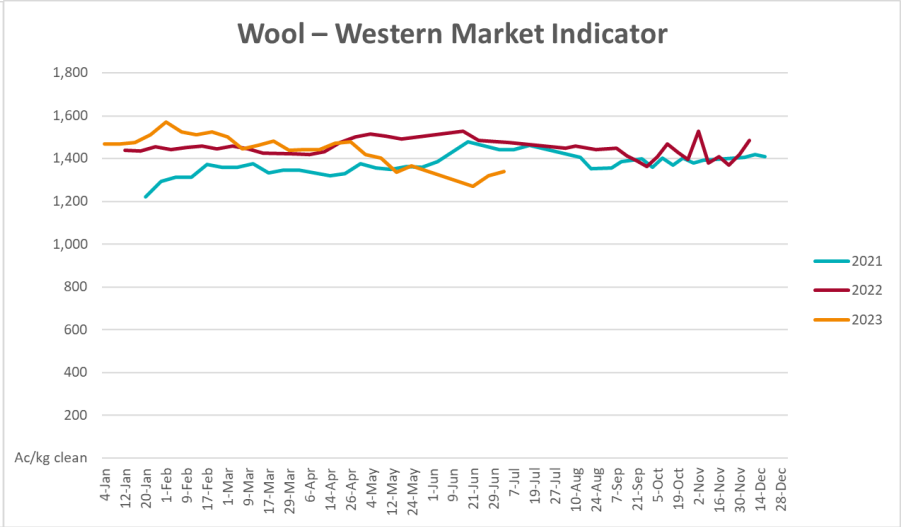

Corn – US no. 2 yellow corn, fob Gulf
400
350
300
250
200
150
100
50
US$/t
2021
2022
2023


Canola – Rapeseed, Canada, fob Vancouver
1200
1000
800
600
400
200
US$/t
2021
2022
2023

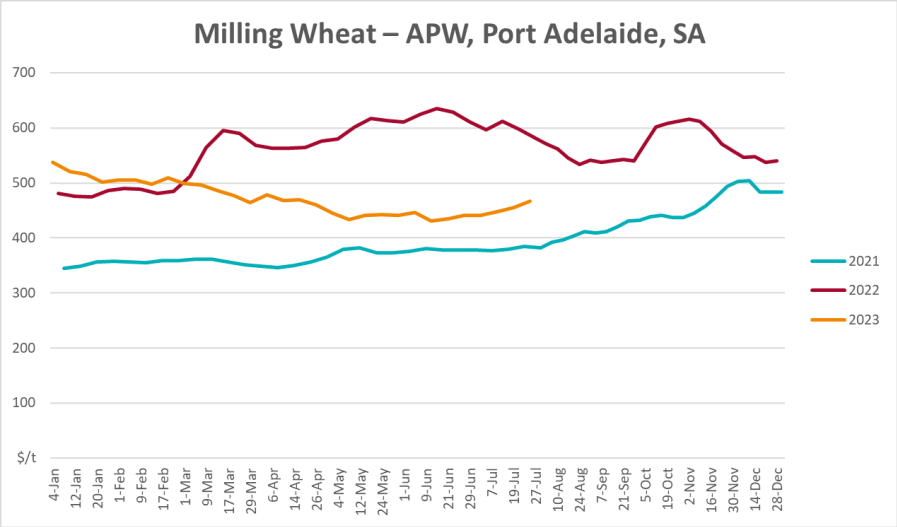

Cotton – Cotlook 'A' Index
180
160
140
120
100
80
60
40
20
USc/lb
2021
2022
2023

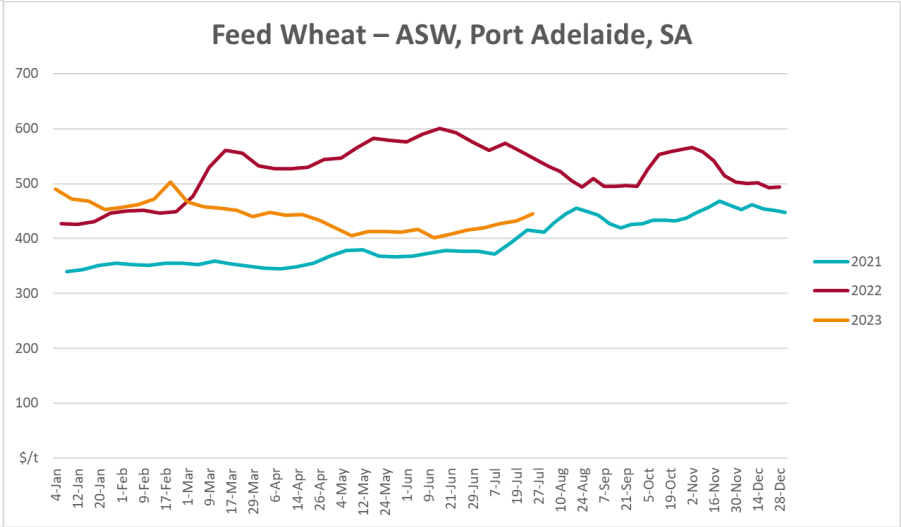

Sugar – Intercontinental Exchange, nearby futures, no.11 contract
30
25
20
15
10
5
USc/lb
2021
2022
2023

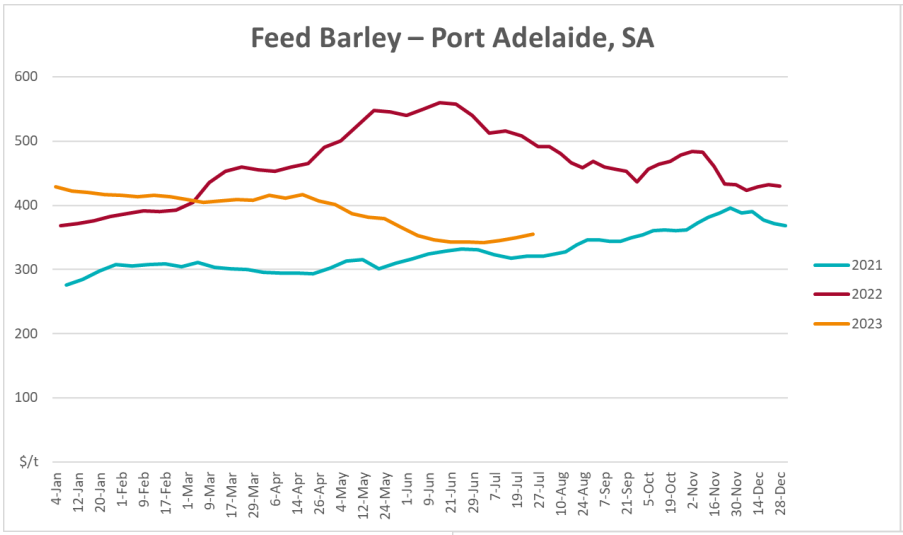

Wool – Eastern Market Indicator
1,600
1,400
1,200
1,000
800
600
400
200
Ac/kg clean
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

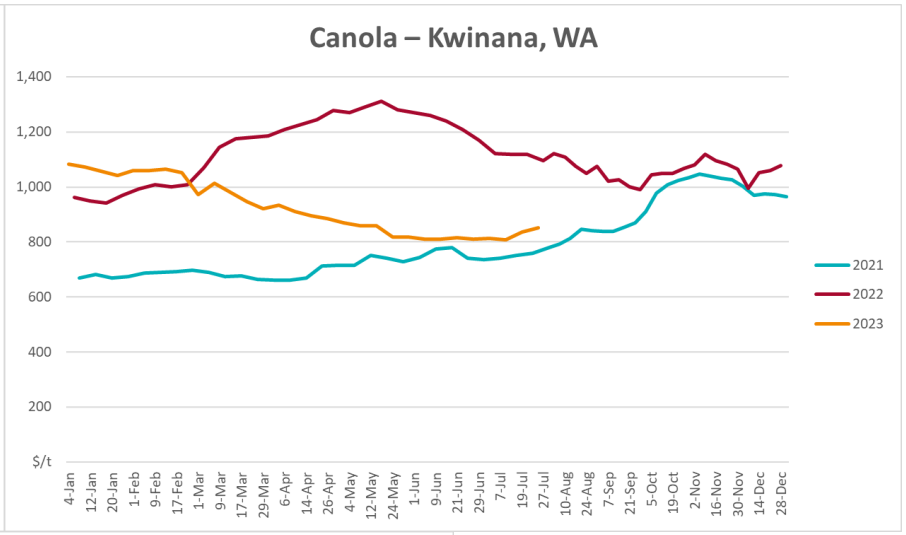

Wool – Western Market Indicator
1,800
1,600
1,400
1,200
1,000
800
600
400
200
Ac/kg clean
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

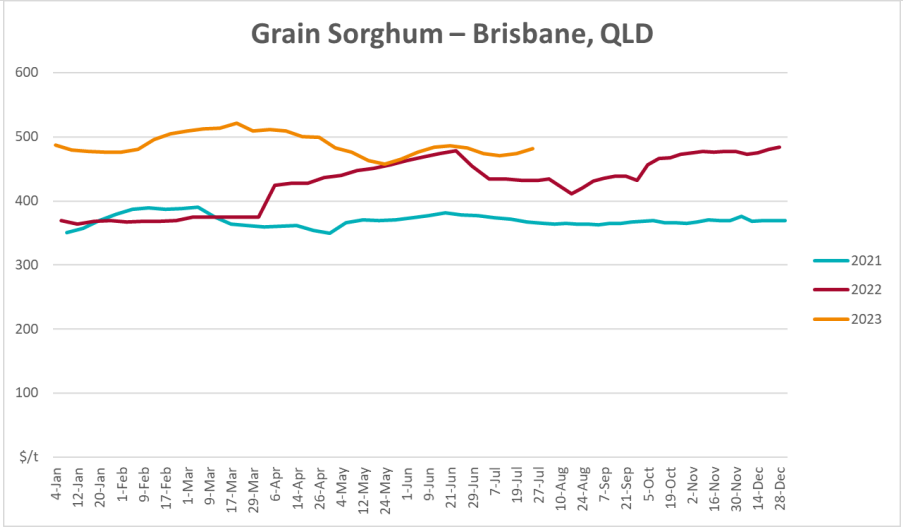
3.2. Selected domestic crop indicator prices



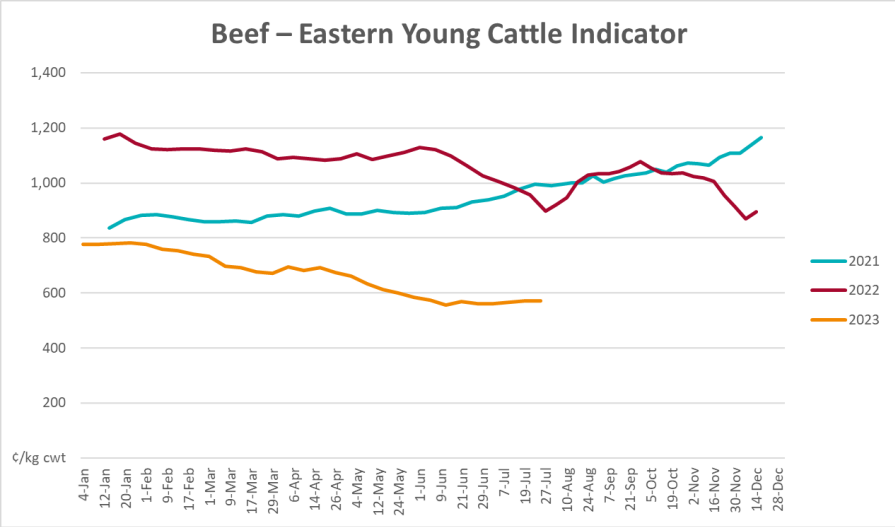


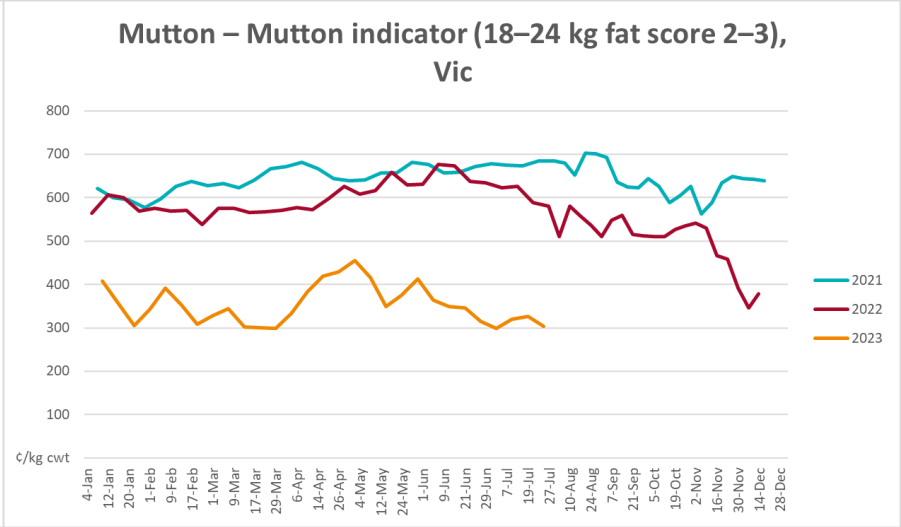

Feed Barley – Port Adelaide, SA
600
500
400
300
200
100
$/t
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

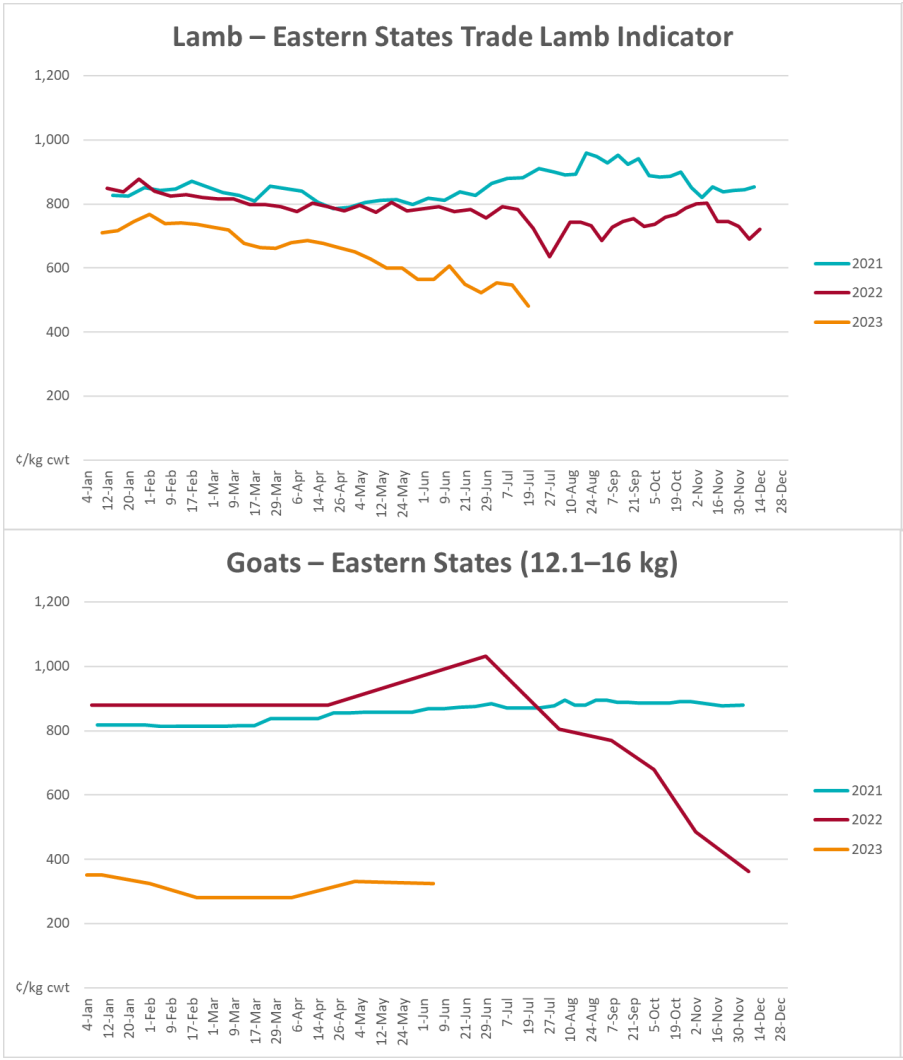

Canola – Kwinana, WA
1,400
1,200
1,000
800
600
400
200
$/t
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

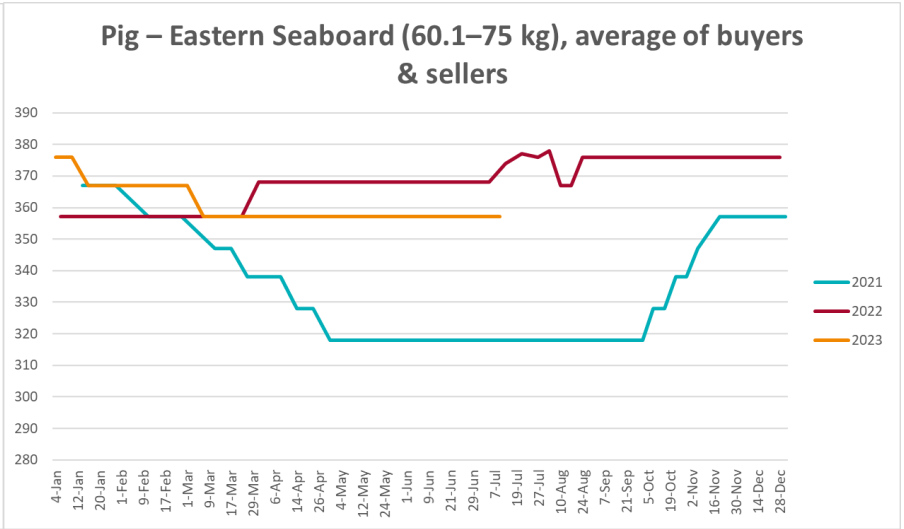

Grain Sorghum – Brisbane, QLD
600
500
400
300
200
100
$/t
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

3.3. Selected domestic livestock indicator prices

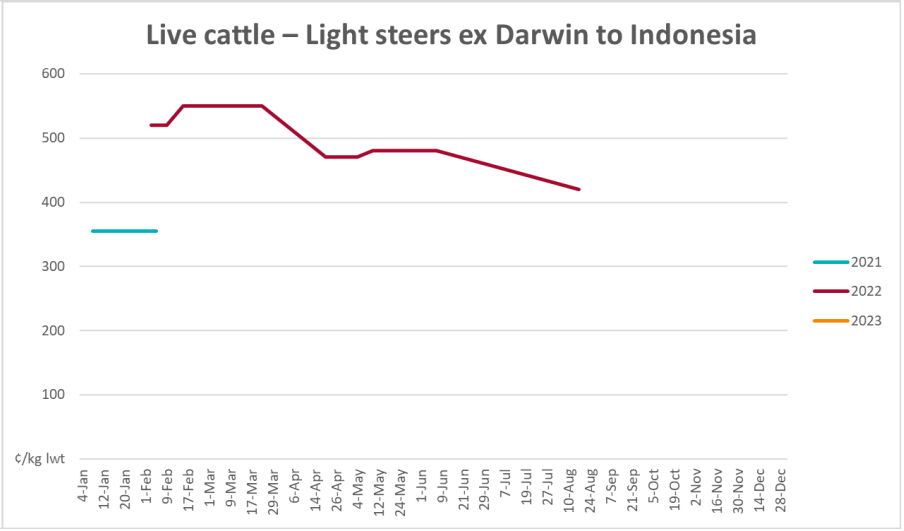


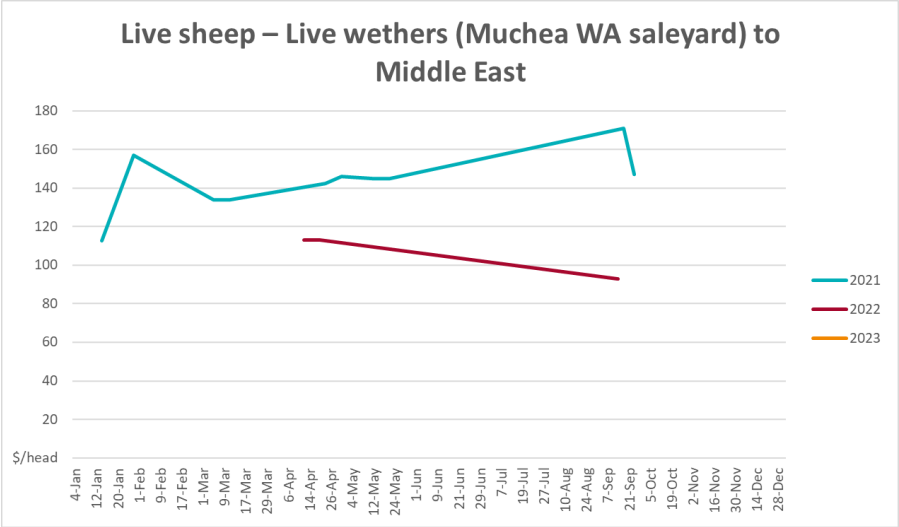



Lamb – Eastern States Trade Lamb Indicator
1,200
1,000
800
600
400
200
¢/kg cwt
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

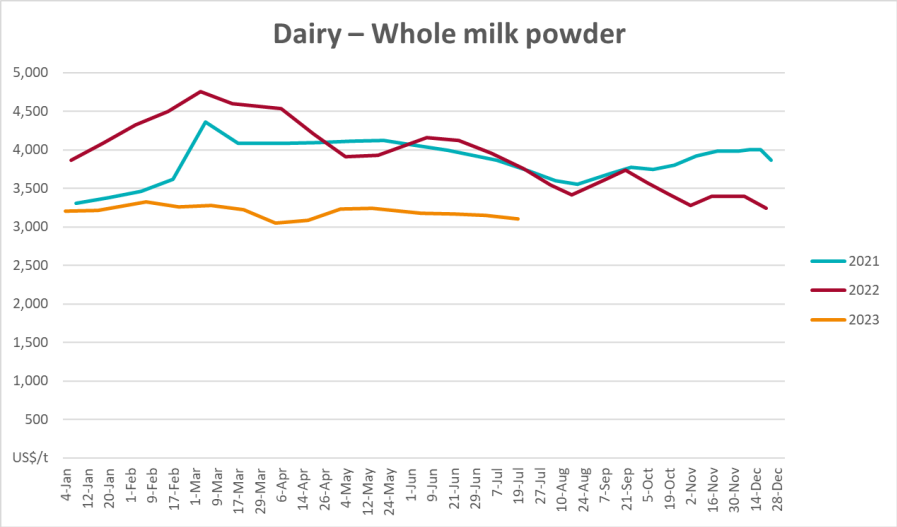

Pig – Eastern Seaboard (60.1–75 kg), average of buyers & sellers
390
380
370
360
350
340
330
320
310
300
290
280
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

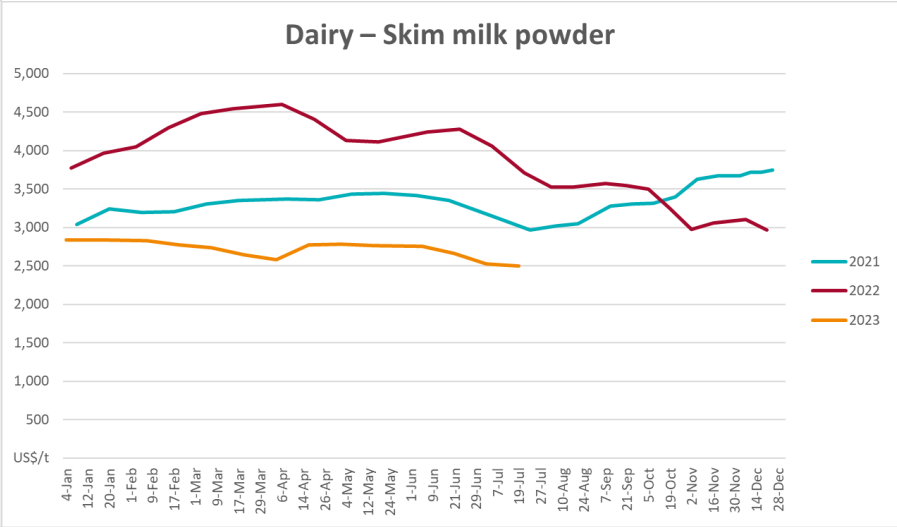
Goats – Eastern States (12.1–16 kg)
1,200
1,000
800
600
400
200
¢/kg cwt
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

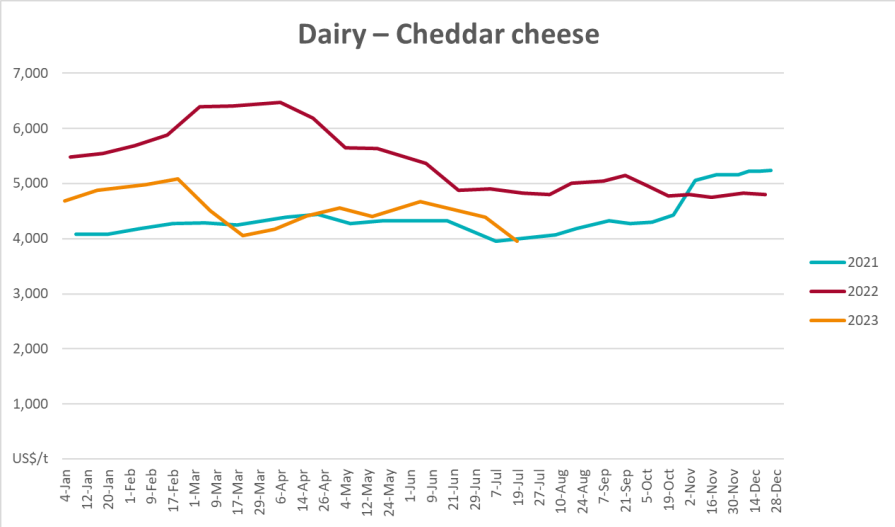

Live cattle – Light steers ex Darwin to Indonesia
600
500
400
300
200
100
¢/kg lwt
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

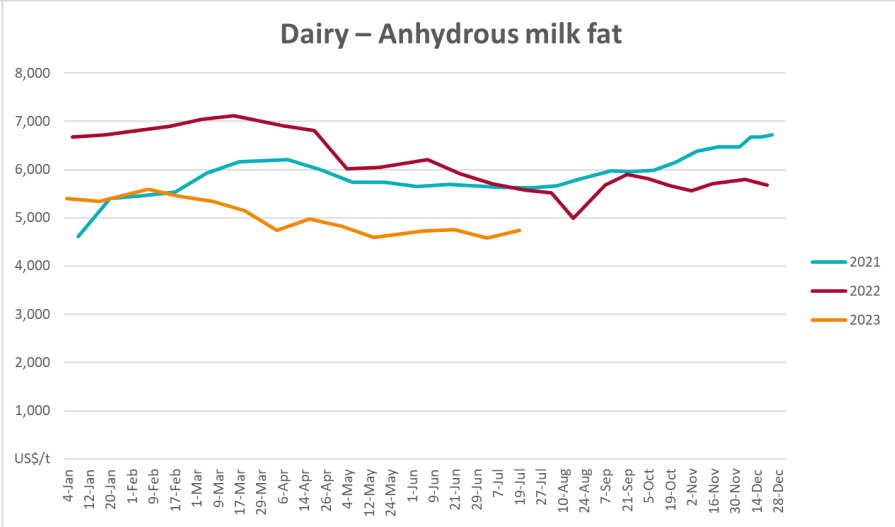

Live sheep – Live wethers (Muchea WA saleyard) to Middle East
180
160
140
120
100
80
60
40
20
$/head
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

3.4. Global Dairy Trade (GDT) weighted average prices

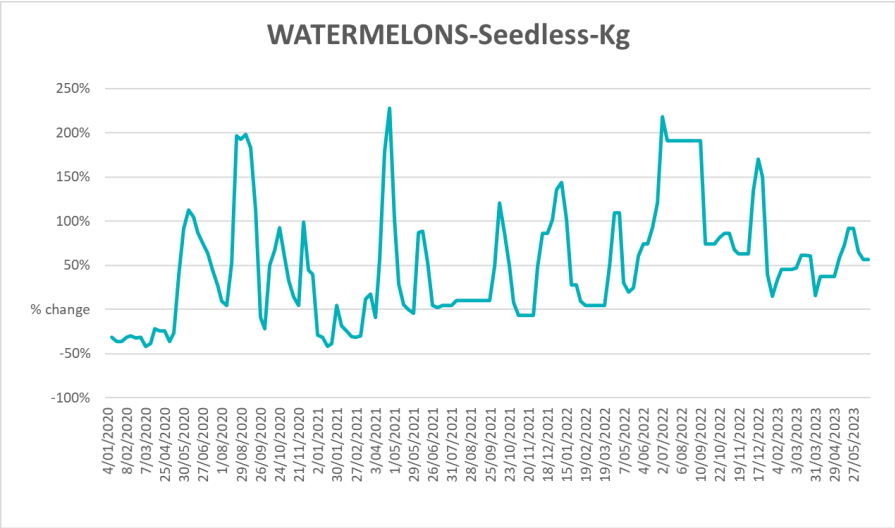


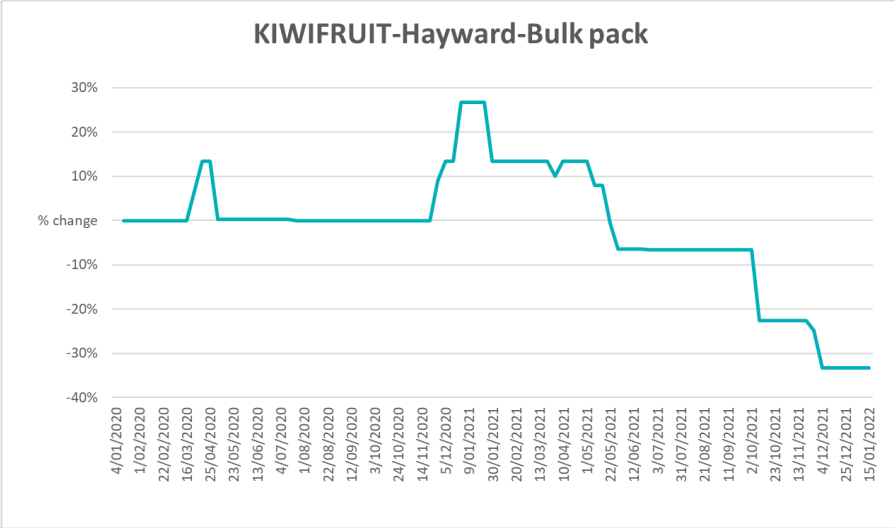


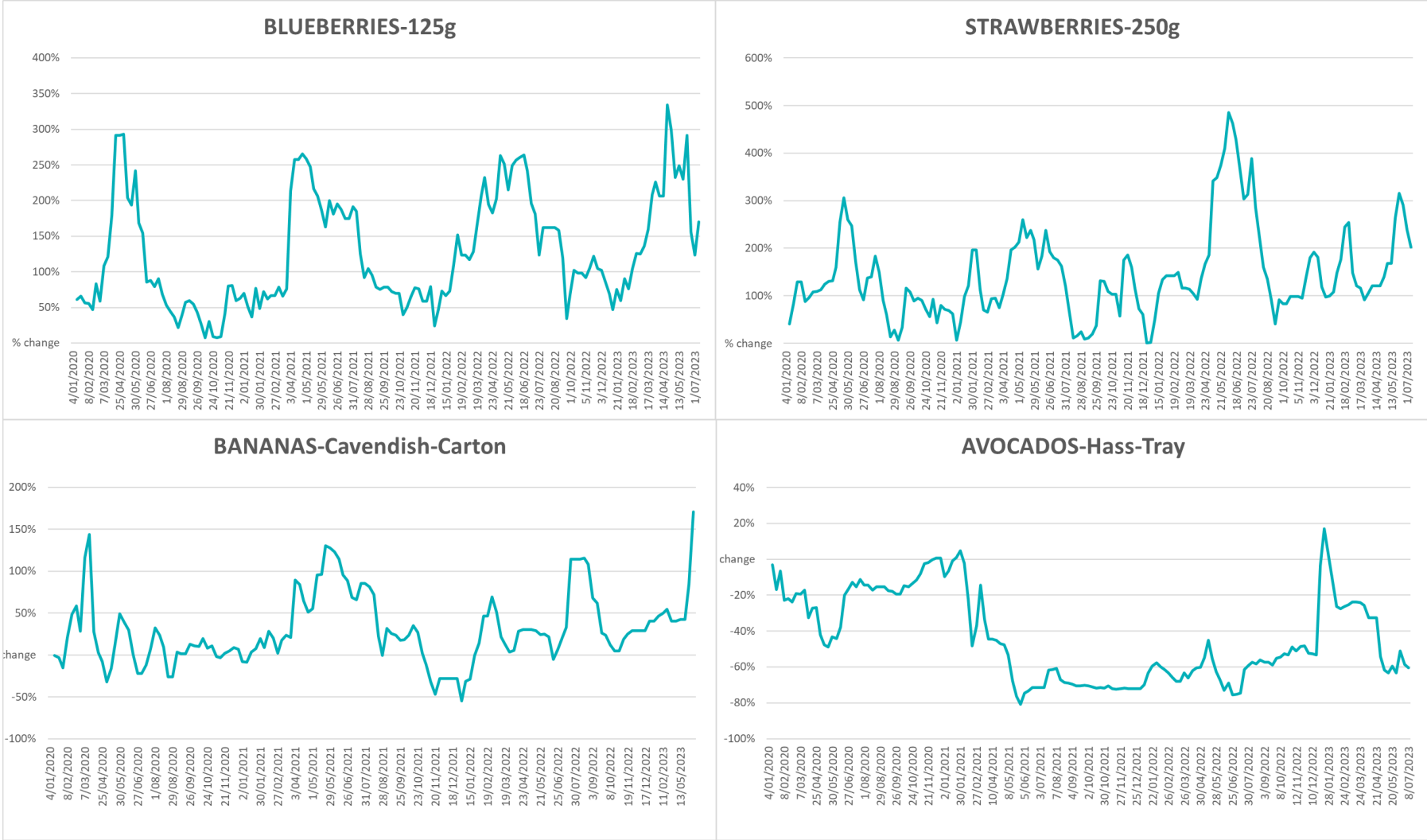

Dairy – Cheddar cheese
7,000
6,000
5,000
4,000
3,000
2,000
1,000
US$/t
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

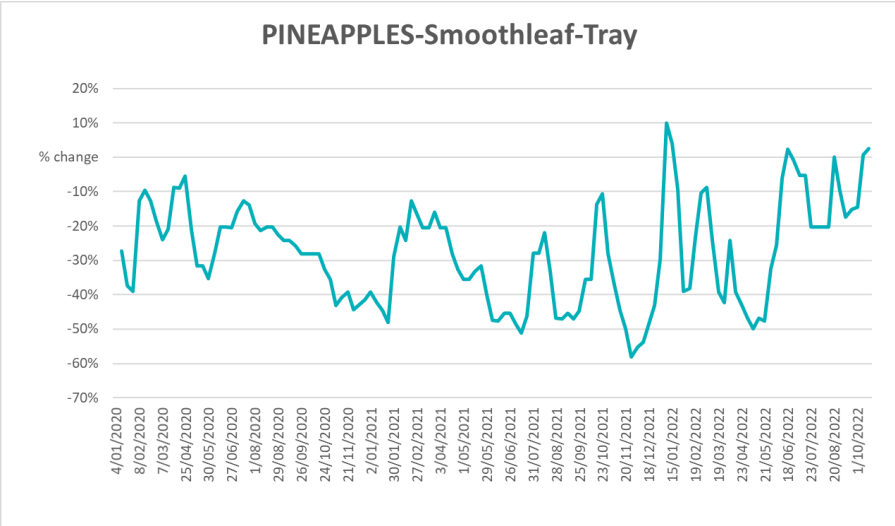

Dairy – Anhydrous milk fat
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
US$/t
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

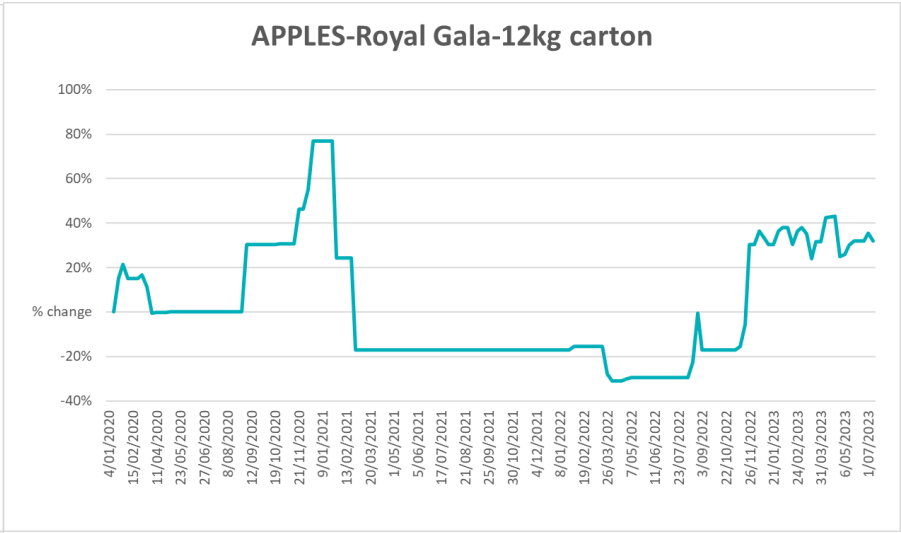
3.5. Selected fruit and vegetable prices

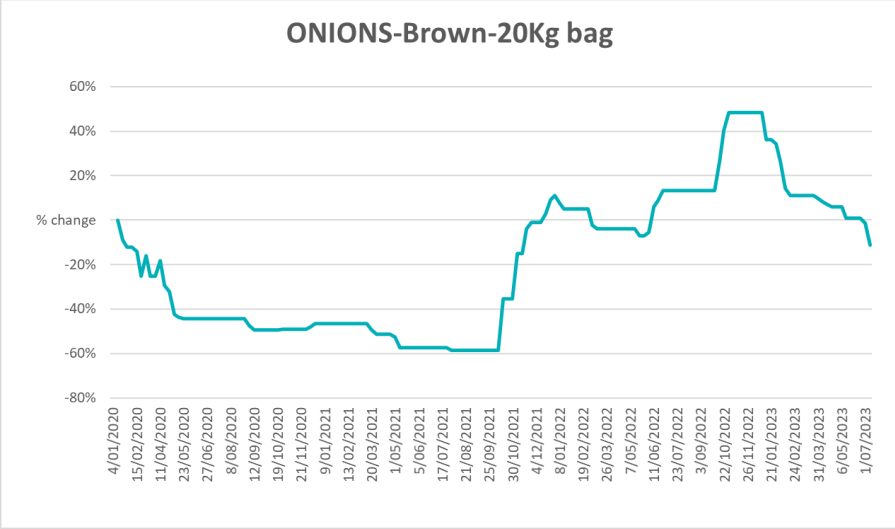


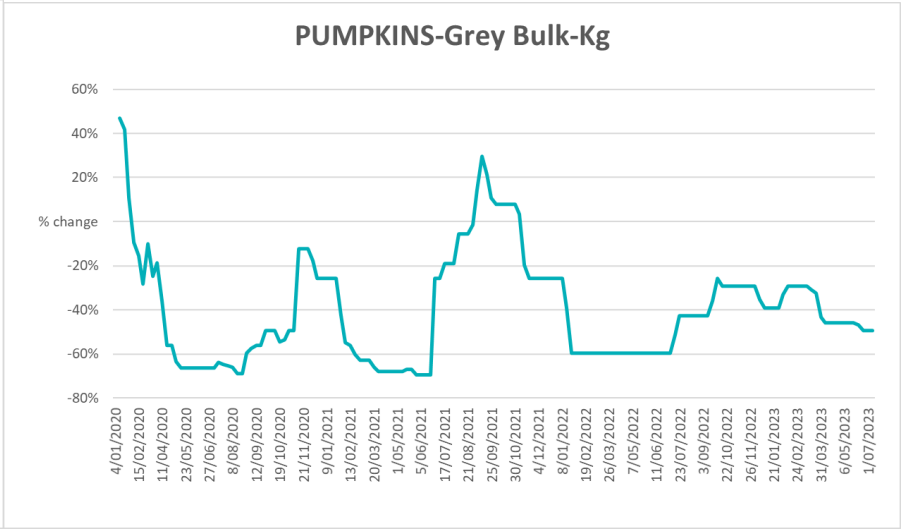


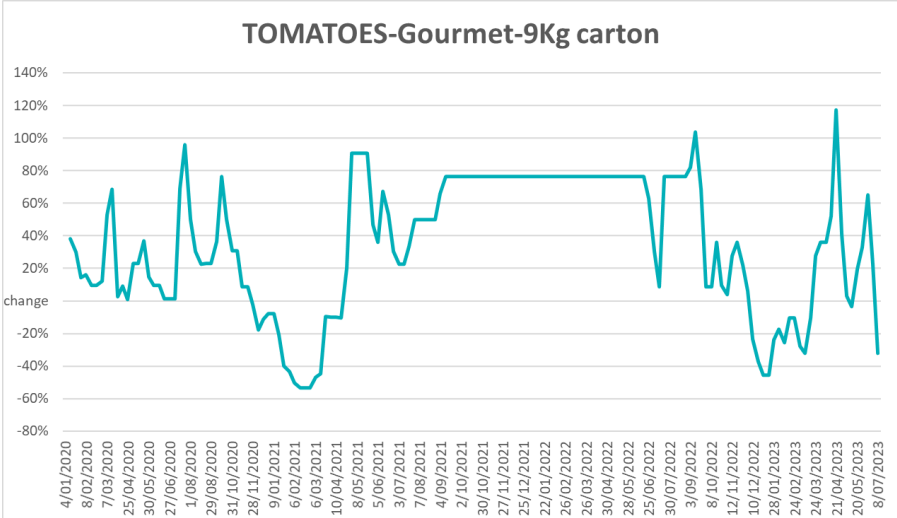

BLUEBERRIES-125g
400%
350%
300%
250%
200%
150%
100%
50%
% change
STRAWBERRIES-250g
600%
500%
400%
300%
200%
100%
% change
BANANAS-Cavendish-Carton
200%
150%
100%
50%
change
-50%
-100%
AVOCADOS-Hass-Tray
40%
20%
change
-20%
-40%
-60%
-80%
-100%

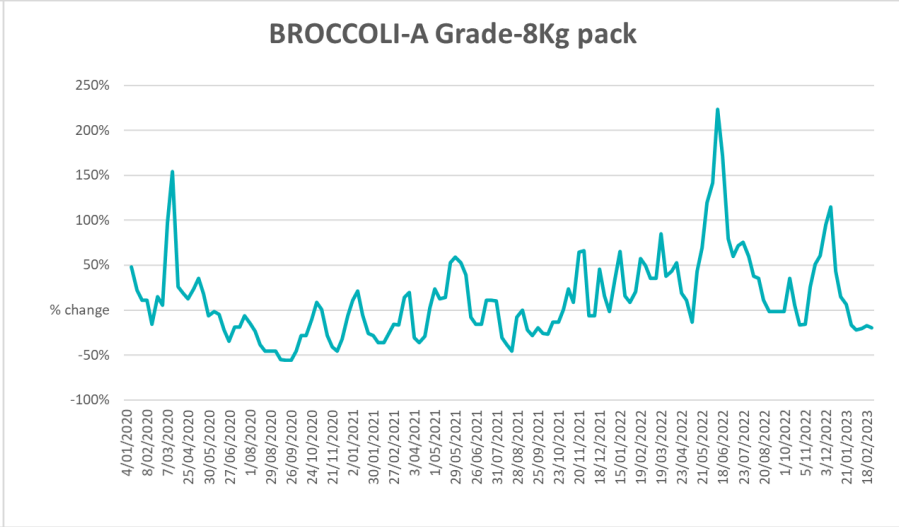

PINEAPPLES-Smoothleaf-Tray
20%
10%
% change
-10%
-20%
-30%
-40%
-50%
-60%
-70%
4/01/2020
8/02/2020
7/03/2020
25/04/2020
30/05/2020
27/06/2020
1/08/2020
29/08/2020
26/09/2020
24/10/2020
21/11/2020
2/01/2021
30/01/2021
27/02/2021
3/04/2021
1/05/2021
29/05/2021
26/06/2021
31/07/2021
28/08/2021
25/09/2021
23/10/2021
20/11/2021
18/12/2021
15/01/2022
19/02/2022
19/03/2022
23/04/2022
21/05/2022
18/06/2022
23/07/2022
20/08/2022
1/10/2022

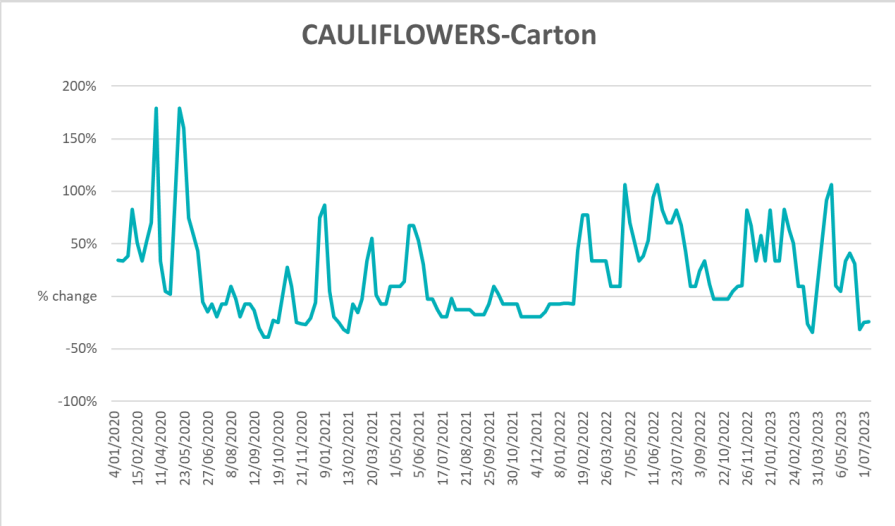

APPLES-Royal Gala-12kg carton
100%
80%
60%
40%
20%
% change
-20%
-40%
4/01/2020
15/02/2020
11/04/2020
23/05/2020
27/06/2020
8/08/2020
12/09/2020
19/10/2020
21/11/2020
9/01/2021
13/02/2021
20/03/2021
1/05/2021
5/06/2021
17/07/2021
21/08/2021
25/09/2021
30/10/2021
4/12/2021
8/01/2022
19/02/2022
26/03/2022
7/05/2022
11/06/2022
23/07/2022
3/09/2022
22/10/2022
26/11/2022
21/01/2023
24/02/2023
31/03/2023
6/05/2023
1/07/2023

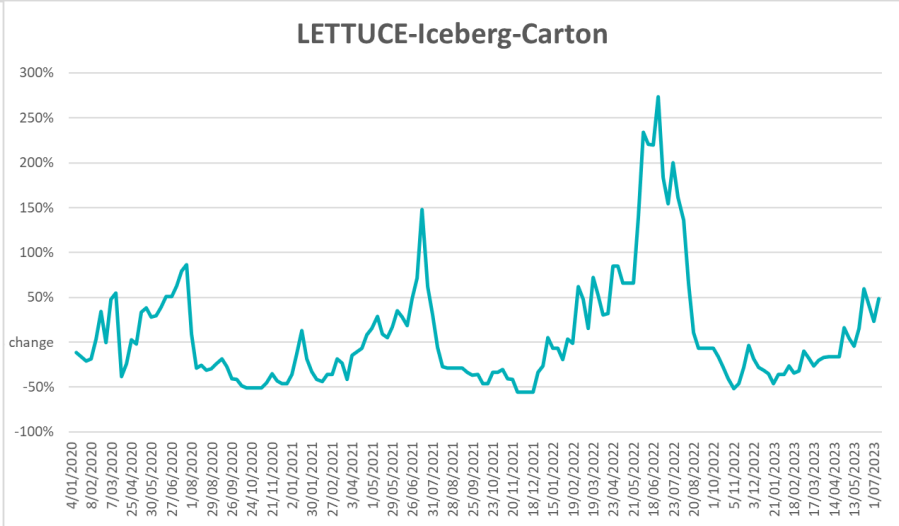

ONIONS-Brown-20Kg bag
60%
40%
20%
% change
-20%
-40%
-60%
-80%
4/01/2020
15/02/2020
11/04/2020
23/05/2020
27/06/2020
8/08/2020
12/09/2020
19/10/2020
21/11/2020
9/01/2021
13/02/2021
20/03/2021
1/05/2021
5/06/2021
17/07/2021
21/08/2021
25/09/2021
30/10/2021
4/12/2021
8/01/2022
19/02/2022
26/03/2022
7/05/2022
11/06/2022
23/07/2022
3/09/2022
22/10/2022
26/11/2022
21/01/2023
24/02/2023
31/03/2023
6/05/2023
1/07/2023

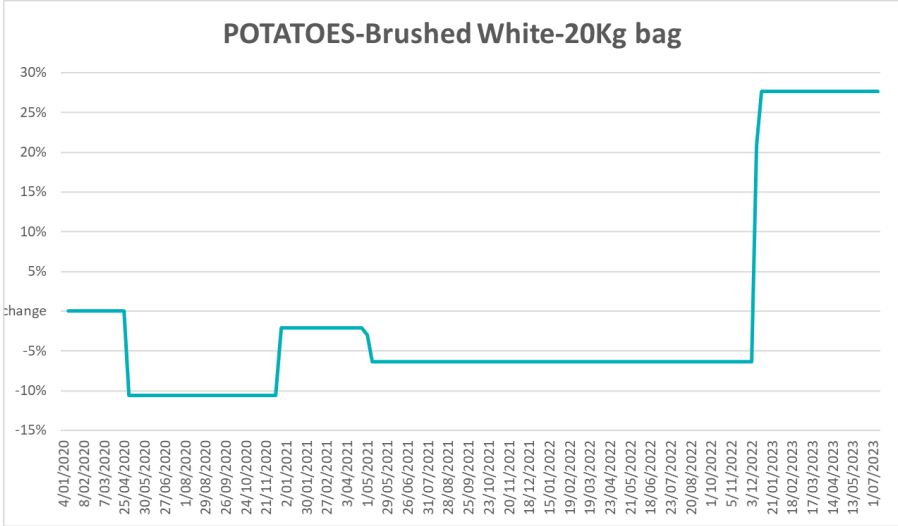

PUMPKINS-Grey Bulk-Kg
60%
40%
20%
% change
-20%
-40%
-60%
-80%
4/01/2020
15/02/2020
11/04/2020
23/05/2020
27/06/2020
8/08/2020
12/09/2020
19/10/2020
21/11/2020
9/01/2021
13/02/2021
20/03/2021
1/05/2021
5/06/2021
17/07/2021
21/08/2021
25/09/2021
30/10/2021
4/12/2021
8/01/2022
19/02/2022
26/03/2022
7/05/2022
11/06/2022
23/07/2022
3/09/2022
22/10/2022
26/11/2022
21/01/2023
24/02/2023
31/03/2023
6/05/2023
1/07/2023

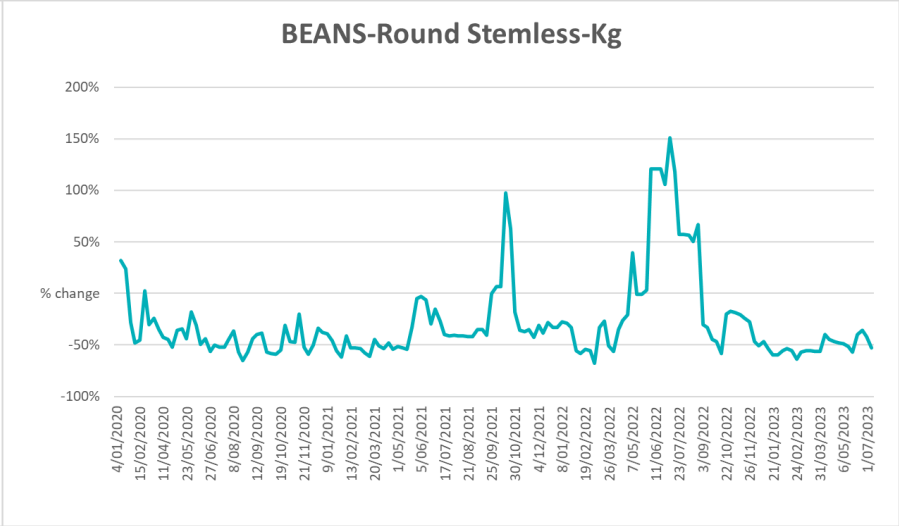

TOMATOES-Gourmet-9Kg carton
140%
120%
100%
80%
60%
40%
20%
change
-20%
-40%
-60%
-80%
4/01/2020
8/02/2020
7/03/2020
25/04/2020
30/05/2020
27/06/2020
1/08/2020
29/08/2020
31/10/2020
28/11/2020
9/01/2021
6/02/2021
6/03/2021
10/04/2021
8/05/2021
5/06/2021
3/07/2021
7/08/2021
4/09/2021
2/10/2021
30/10/2021
27/11/2021
25/12/2021
22/01/2022
26/02/2022
26/03/2022
30/04/2022
28/05/2022
25/06/2022
30/07/2022
3/09/2022
8/10/2022
12/11/2022
10/12/2022
28/01/2023
24/02/2023
24/03/2023
21/04/2023
20/05/2023
8/07/2023


BROCCOLI-A Grade-8Kg pack
250%
200%
150%
100%
50%
% change
-50%
-100%
4/01/2020
8/02/2020
7/03/2020
25/04/2020
30/05/2020
27/06/2020
1/08/2020
29/08/2020
26/09/2020
24/10/2020
21/11/2020
2/01/2021
30/01/2021
27/02/2021
3/04/2021
1/05/2021
29/05/2021
26/06/2021
31/07/2021
28/08/2021
25/09/2021
23/10/2021
20/11/2021
18/12/2021
15/01/2022
19/02/2022
19/03/2022
23/04/2022
21/05/2022
18/06/2022
23/07/2022
20/08/2022
1/10/2022
5/11/2022
3/12/2022
21/01/2023
18/02/2023

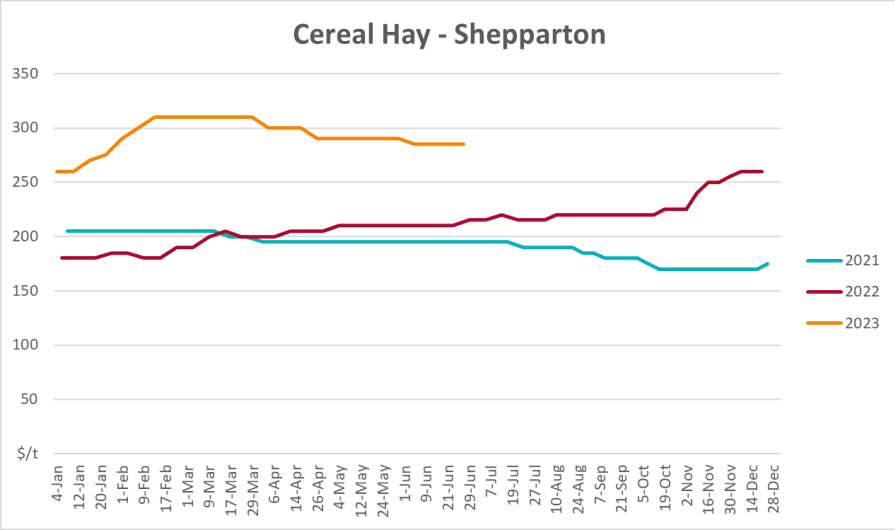

CAULIFLOWERS-Carton
200%
150%
100%
50%
% change
-50%
-100%
4/01/2020
15/02/2020
11/04/2020
23/05/2020
27/06/2020
8/08/2020
12/09/2020
19/10/2020
21/11/2020
9/01/2021
13/02/2021
20/03/2021
1/05/2021
5/06/2021
17/07/2021
21/08/2021
25/09/2021
30/10/2021
4/12/2021
8/01/2022
19/02/2022
26/03/2022
7/05/2022
11/06/2022
23/07/2022
3/09/2022
22/10/2022
26/11/2022
21/01/2023
24/02/2023
31/03/2023
6/05/2023
1/07/2023

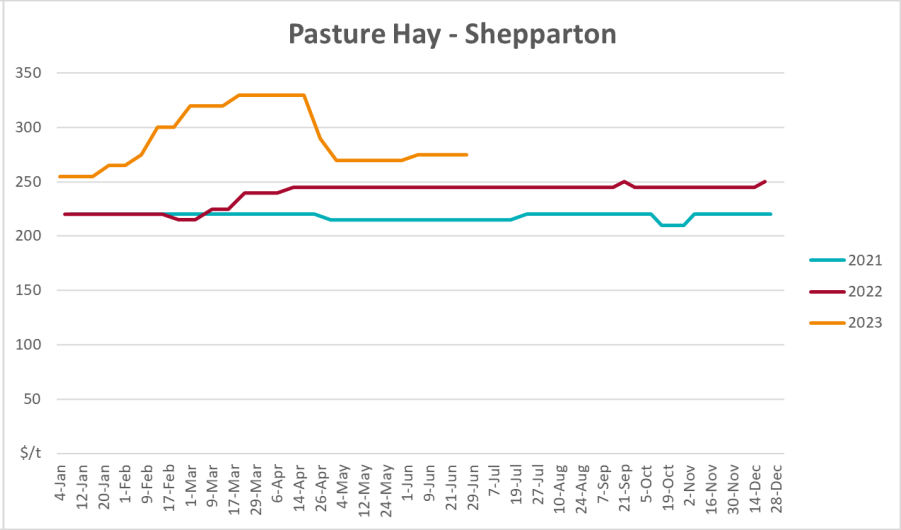

LETTUCE-Iceberg-Carton
300%
250%
200%
150%
100%
50%
change
-50%
-100%
4/01/2020
8/02/2020
7/03/2020
25/04/2020
30/05/2020
27/06/2020
1/08/2020
29/08/2020
26/09/2020
24/10/2020
21/11/2020
2/01/2021
30/01/2021
27/02/2021
3/04/2021
1/05/2021
29/05/2021
26/06/2021
31/07/2021
28/08/2021
25/09/2021
23/10/2021
20/11/2021
18/12/2021
15/01/2022
19/02/2022
19/03/2022
23/04/2022
21/05/2022
18/06/2022
23/07/2022
20/08/2022
1/10/2022
5/11/2022
3/12/2022
21/01/2023
18/02/2023
17/03/2023
14/04/2023
13/05/2023
1/07/2023

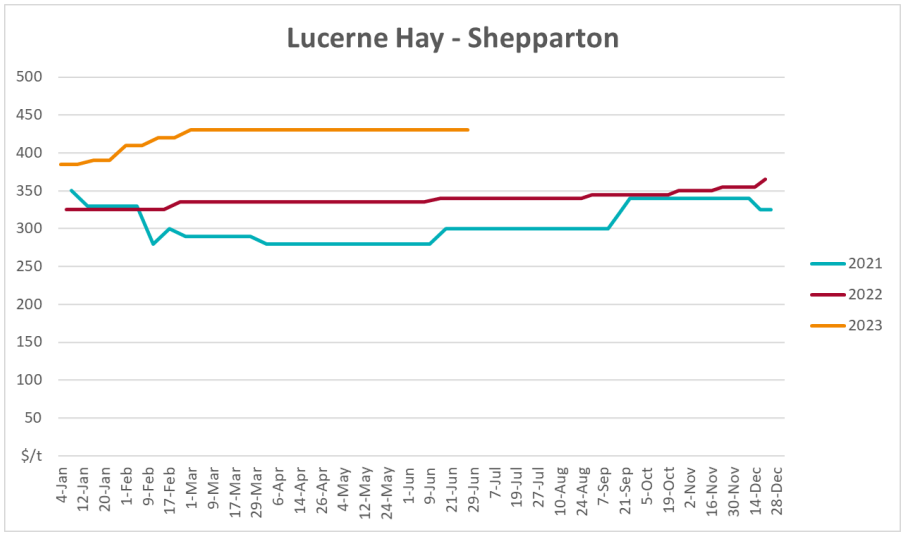

POTATOES-Brushed White-20Kg bag
30%
25%
20%
15%
10%
5%
change
-5%
-10%
-15%
4/01/2020
8/02/2020
7/03/2020
25/04/2020
30/05/2020
27/06/2020
1/08/2020
29/08/2020
26/09/2020
24/10/2020
21/11/2020
2/01/2021
30/01/2021
27/02/2021
3/04/2021
1/05/2021
29/05/2021
26/06/2021
31/07/2021
28/08/2021
25/09/2021
23/10/2021
20/11/2021
18/12/2021
15/01/2022
19/02/2022
19/03/2022
23/04/2022
21/05/2022
18/06/2022
23/07/2022
20/08/2022
1/10/2022
5/11/2022
3/12/2022
21/01/2023
18/02/2023
17/03/2023
14/04/2023
13/05/2023
1/07/2023


BEANS-Round Stemless-Kg
200%
150%
100%
50%
% change
-50%
-100%
4/01/2020
15/02/2020
11/04/2020
23/05/2020
27/06/2020
8/08/2020
12/09/2020
19/10/2020
21/11/2020
9/01/2021
13/02/2021
20/03/2021
1/05/2021
5/06/2021
17/07/2021
21/08/2021
25/09/2021
30/10/2021
4/12/2021
8/01/2022
19/02/2022
26/03/2022
7/05/2022
11/06/2022
23/07/2022
3/09/2022
22/10/2022
26/11/2022
21/01/2023
24/02/2023
31/03/2023
6/05/2023
1/07/2023

3.6 Selected domestic fodder indicator prices






Lucerne Hay - Shepparton
500
450
400
350
300
250
200
150
100
50
$/t
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
10-Aug
24-Aug
7-Sep
21-Sep
5-Oct
19-Oct
2-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

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/
- Temperature anomalies: www.bom.gov.au/jsp/awap/temp/index.jsp
- Rainfall forecast: www.bom.gov.au/jsp/watl/rainfall/pme.jsp
- Seasonal outlook: 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/

Other

- Pasture growth: www.longpaddock.qld.gov.au/aussiegrass/
- 3-month global outlooks: Environment and Climate Change Canada, NOAA Climate Prediction Center, EUROBRISA CPTEC/INPE, European Centre for Medium-Range Weather Forecasts, Hydrometcenter of Russia, National Climate Center Climate System Diagnosis and Prediction Room (NCC), International Research Institute for Climate and Society
- 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

Pigs

- Australian Pork Limited: www.australianpork.com.au

Dairy

- Global Dairy Trade: 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/

World sugar

- New York Stock Exchange - Intercontinental Exchange

Wool

- Australian Wool Exchange: 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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