Australian Government
Department of Agriculture, Fisheries and Forestry

ABARES

Weekly Australian Climate, Water and Agricultural Update

No. 34/2023

31 August 2023

Summary of key issues

- For the week ending 30 August 2023, fronts and troughs brought isolated showers to south-eastern parts of the country. A high-pressure system kept the remainder of the country dry and clear.
- Across cropping regions, rainfall totals of up to 15 millimetres were recorded in isolated areas in north-eastern New South Wales. Little to no rainfall was recorded in the remaining cropping regions. Given the lack of rainfall across many cropping regions in New South Wales, Queensland and Western Australia, these regions are continuing to see a gradual decline in soil moisture reserves. This represents an increased risk of declines in crop yields if follow-up rainfall is not received in the next few weeks (see Section 1.1).
- The Bureau of Meteorology's ENSO outlook remains at El Niño ALERT given that not all atmospheric indicators have reached El Niño thresholds. The sea surface temperature has exceeded El Niño thresholds in the tropical Pacific. The Southern Oscillation Index is just below El Niño thresholds. In contrast, trade winds and cloudiness near Date Line are fluctuating closer to average and are yet to reach El Niño thresholds (see Section 1.2).
- The Indian Ocean Dipole (IOD) index has been in the positive phase for the past two weeks, but this has to persist for several weeks to be declared a positive IOD event. A positive IOD, together with an El Niño, typically suppresses spring rainfall in central and eastern Australia. The expected onset of these climate drivers is influencing the hot and dry outlook for spring (see Section 1.2).
- Over the 8-days to 7 September 2023, fronts and troughs are expected to bring isolated showers to southern parts of the country. A high-pressure system is expected to bring mainly dry conditions to the remainder of the country (see Section 1.3).
- Across most cropping regions, minimal rainfall totals of up to 10 millimetres are expected. These falls are not expected to have much benefit to crops and pastures as they are unlikely to be sufficient to offset evaporative losses. Cropping regions in Queensland, northern New South Wales, northern Western Australia and western South Australia have experienced a dry August to date and have well below average levels of soil moisture. Crops and pastures in these areas will be disposed to heat and moisture stress, negatively affecting production potential (see Section 1.3).
- Water storage levels in the Murray-Darling Basin (MDB) increased between 24 August 2023 and 31 August 2023 by 36 gigalitres (GL). Current volume of water held in storage is 21 026 GL. This is 2 percent or 457 GL less than at the same time last year.
- Allocation prices in the Victorian Murray below the Barmah Choke remained steady at $155 from 24 August 2023 to 31 August 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.

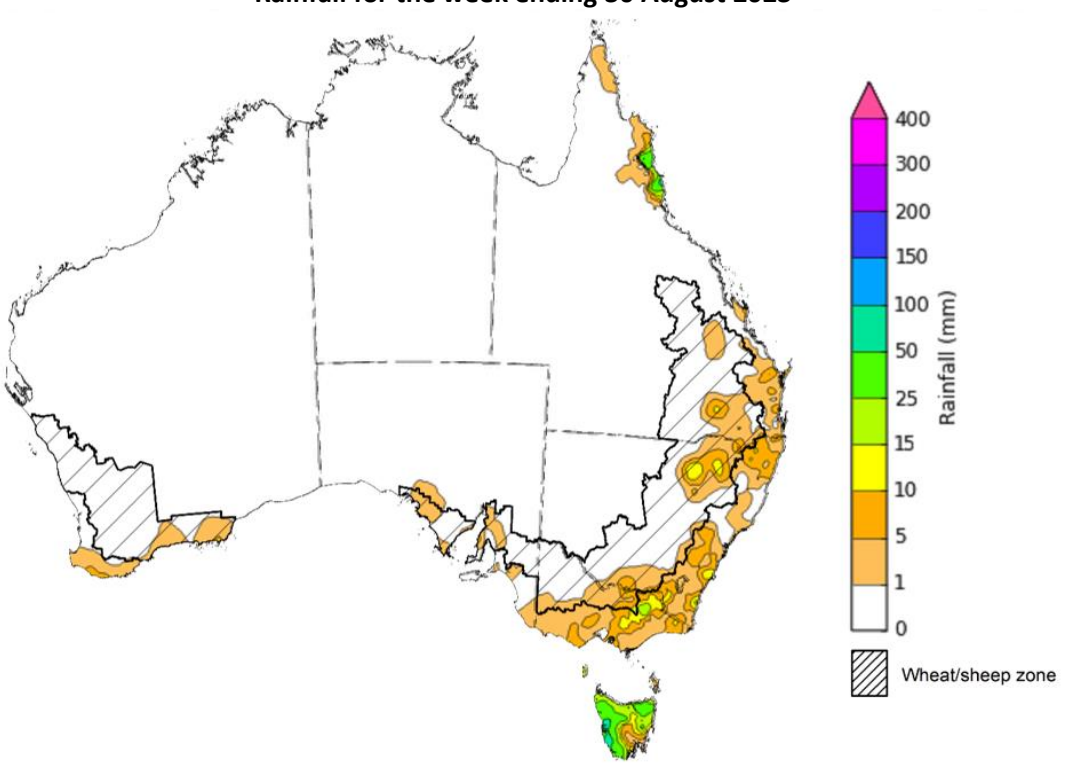
1. Climate

1.1. Rainfall this week

For the week ending 30 August 2023, fronts and troughs brought isolated showers to south-eastern parts of the country. A high-pressure system kept the remainder of the country dry and clear.

Across cropping regions, rainfall totals of up to 15 millimetres were recorded in isolated areas in north-eastern New South Wales. Little to no rainfall was recorded in the remaining cropping regions. Given the lack of rainfall across most cropping regions in New South Wales, Queensland and Western Australia, these regions are continuing to see a gradual decline in soil moisture reserves. This represents an increased risk of declines in crop yields if follow-up rainfall is not received in the next few weeks.

Rainfall for the week ending 30 August 2023



 Issued: 30/8/2023

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/

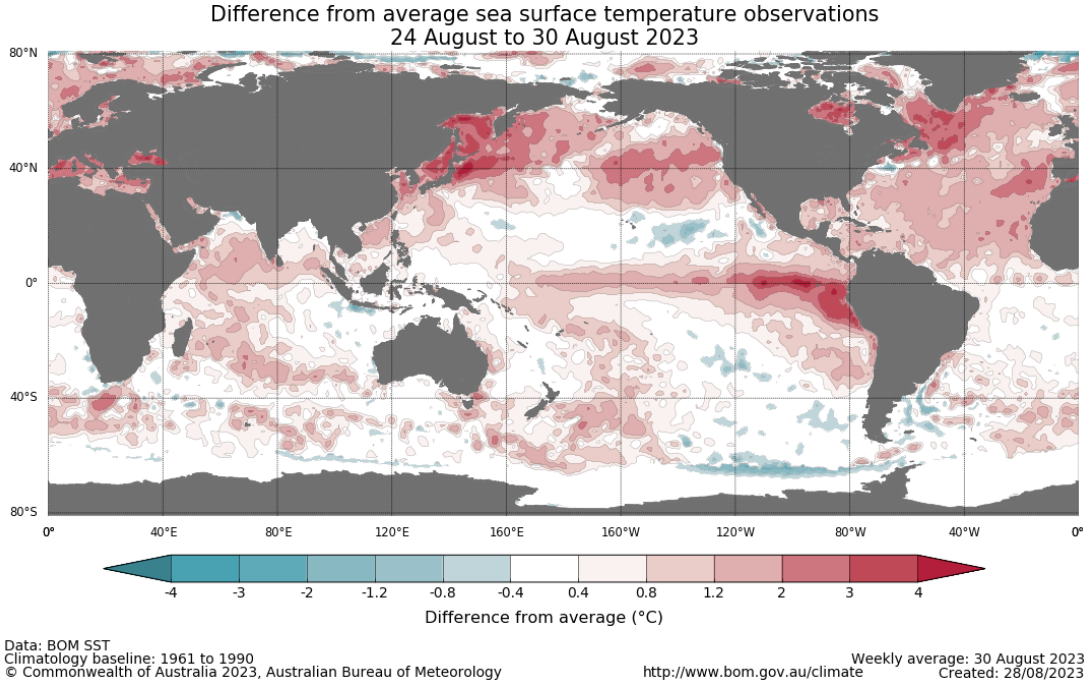
1.2. Climate Drivers

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 indiscernible. 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 and remains in the El Niño thresholds. For the week ending 30 August, SST anomalies were warmer than average across almost all of the equatorial Pacific. Typically, during El Niño events, waters off eastern Australia are cooler than average, pushing moisture flow from this region away from Australia. 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.

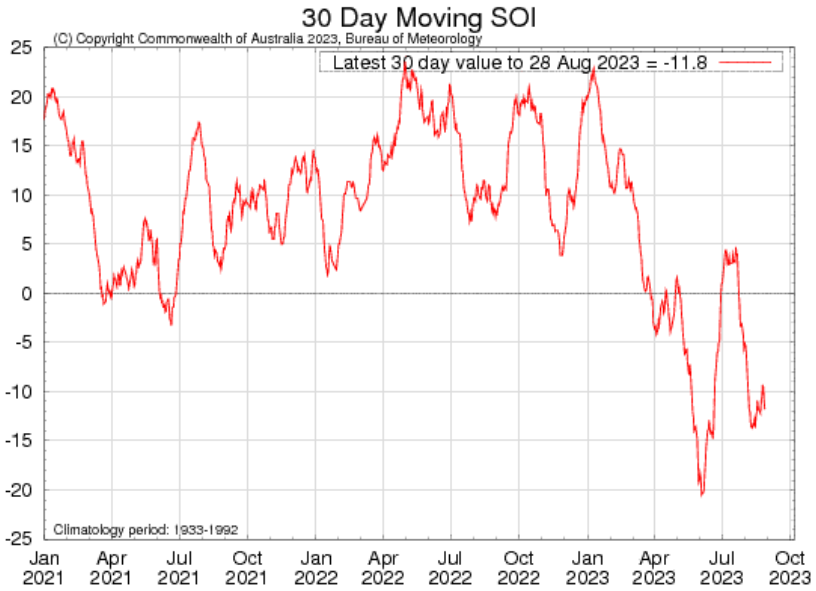
Weekly sea surface temperature anomaly



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.

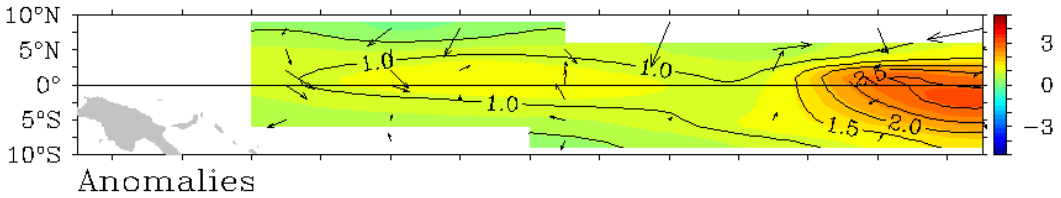
The 30-day SOI had returned to El Niño threshold to a value of -11 for the period ending 27 August 2023. The 60- and 90-day SOI values were -7.1 and -6.0, respectively. The 90-day SOI values were just below the El Niño threshold.

30-day Southern Oscillation Index (SOI) values ending 28 August 2023



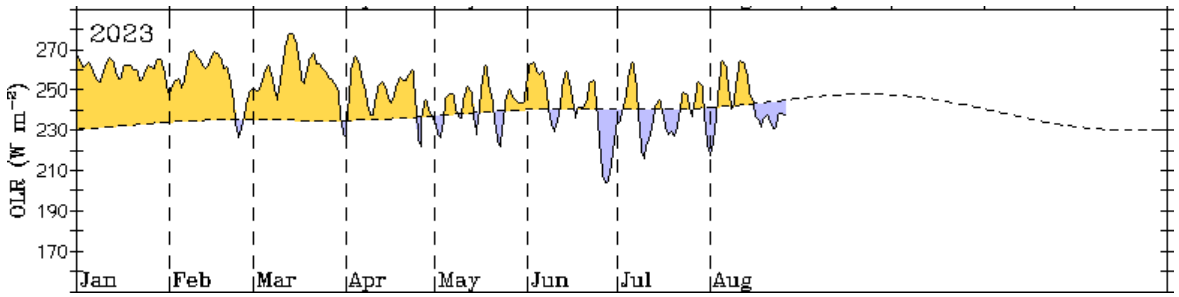
The direction and strength of the trade winds are another indicator for ENSO phases. During El Niño, there is a sustained weakening, or even reversal, of trade winds across much of the tropical Pacific, while during La Niña there is a sustained strengthening of trade winds. Trade winds for the 5 days ending 27 August 2023 were slightly weaker than average over the far western tropical Pacific, but closer to average elsewhere. Trade winds are yet to fully complement the SST response to the El Niño phase.

Wind anomaly on August 27 2023



The cloudiness along the international Date Line (7.5S–7.5N, 170E–170W) is another indicator for ENSO phases. During an El Niño the cloudiness increases along the Date Line (indicated by the negative Outgoing Longwave Radiation (OLR)), and vice versa for during La Niña. Since April 2023, the cloudiness has been fluctuating around average levels and have yet to meet the thresholds for an El Niño phase.

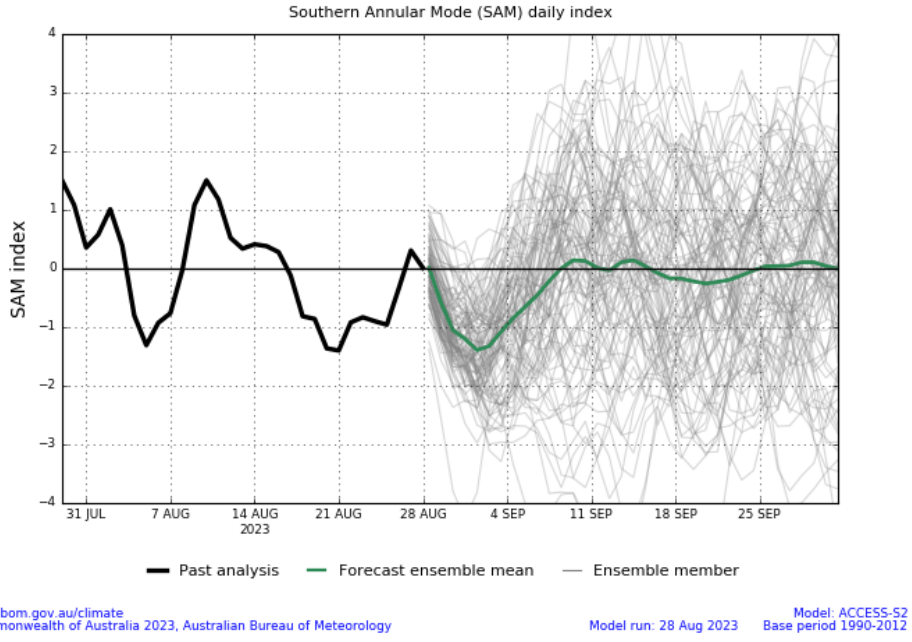
Cloudiness averaged for area 7.5S–7.5N, 170E–170W



The Indian Ocean Dipole (IOD) index was in the positive phase for the second week in a row and was +1.05°C for the week ending 27 August 2023. Weekly sea surface temperatures (SSTs) are above average across large areas of the tropical and southern Indian Ocean, especially in the mid-latitudes where anomalies are up to 3°C warmer than average. Closer to Australia, SSTs have cooled down south of the Maritime Continent and continue to be cooler than average around the western and southern coasts of the Western Australia. For a positive IOD phase to be declared, the IOD index values must persist in the positive phase range for at least 8 weeks. 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.

The Southern Annular Mode (SAM) index is currently neutral and is expected to become slightly negative before returning to neutral levels during September. A neutral SAM has little influence on Australian climate.

Southern Annular Mode (SAM) daily index

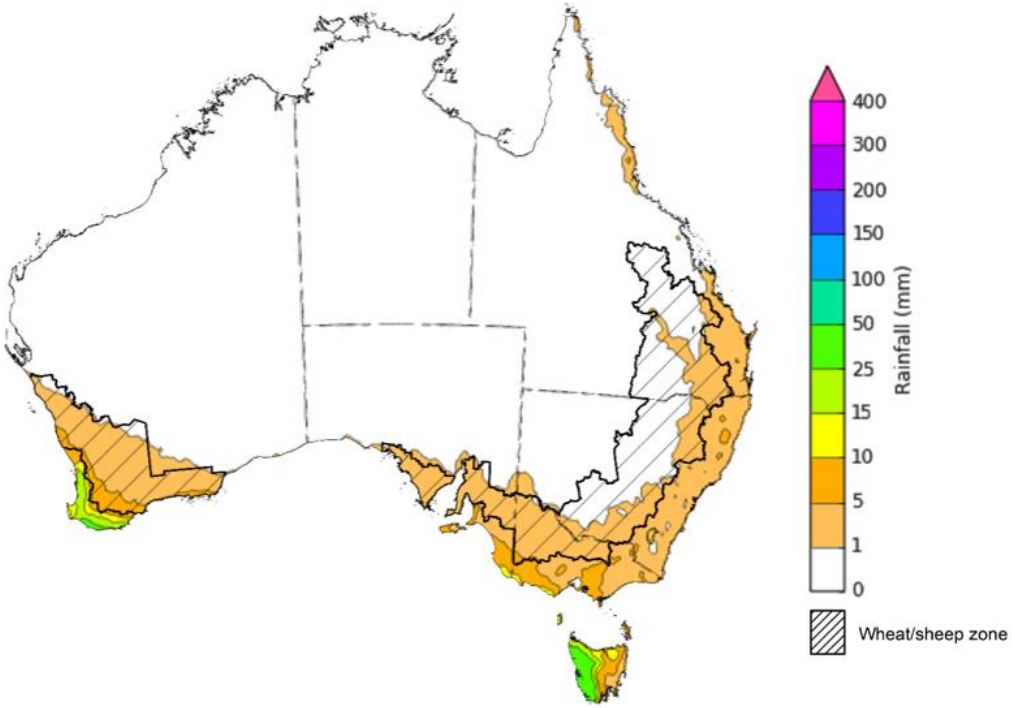


1.3 Rainfall forecast for the next eight days

Over the 8-days to 7 September 2023, fronts and troughs are expected to bring isolated showers to southern parts of the country. A high-pressure system is expected to bring mainly dry conditions to the remainder of the country.

Across most cropping regions, minimal rainfall totals of up to 10 millimetres are expected. These falls are not expected to have much benefit to crops and pastures as they are unlikely to be sufficient to offset evaporative losses. Following a dry August so far cropping regions in Queensland, northern New South Wales, northern Western Australia and western South Australia and given the current well below average levels of soil moisture, crops and pastures is these areas will be disposed to heat and moisture stress, negatively affecting production potential.

Total forecast rainfall for the period 31 August 2023 to 7 September 2023



 Issued 31/8/2023
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) increased between 24 August 2023 and 31 August 2023 by 36 gigalitres (GL). Current volume of water held in storage is 21 026 GL. This is 2 percent or 457 GL less than at the same time last year.

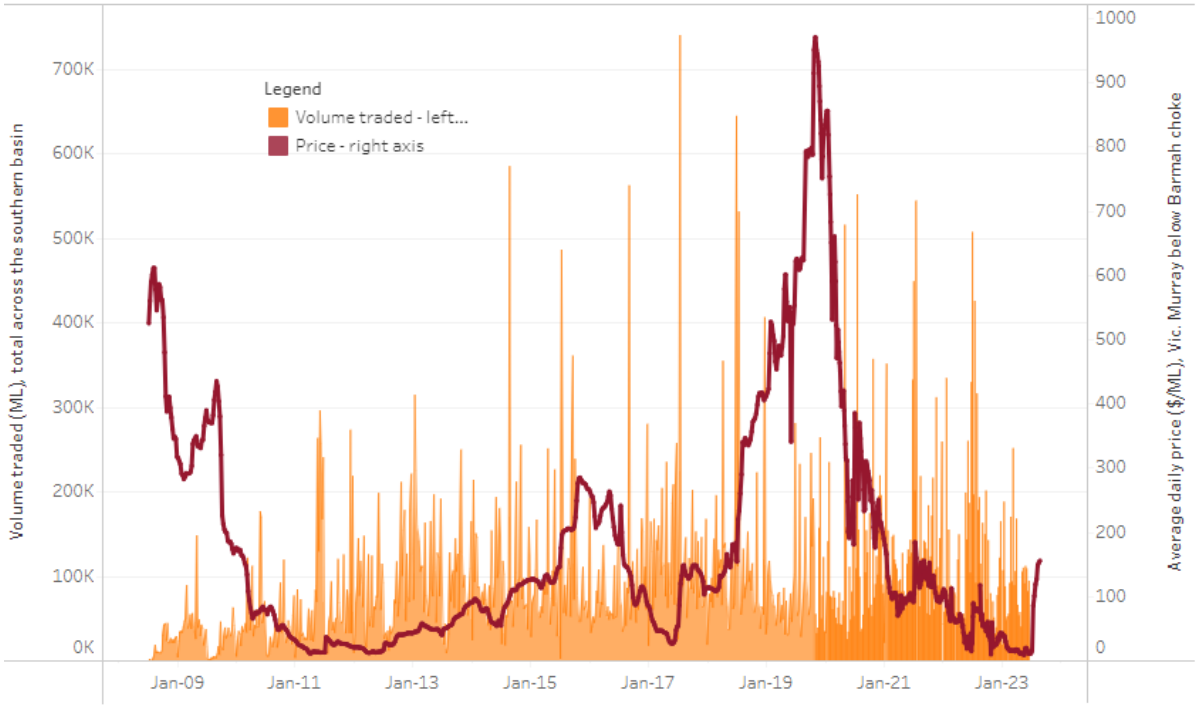
Water storages in the Murray-Darling Basin, 2013–2023

Water storage data is sourced from the Bureau of Meteorology.

Allocation prices in the Victorian Murray below the Barmah Choke remained steady at $155 from 24 August 2023 to 31 August 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	70
NSW Murrumbidgee	155
VIC Goulburn-Broken	120
VIC Murray Below	155

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 31 August 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-31823

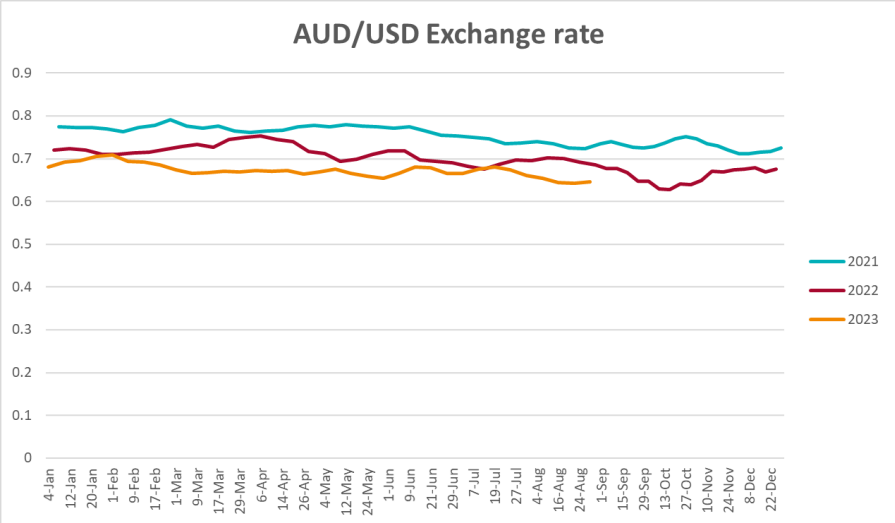
3. Commodities

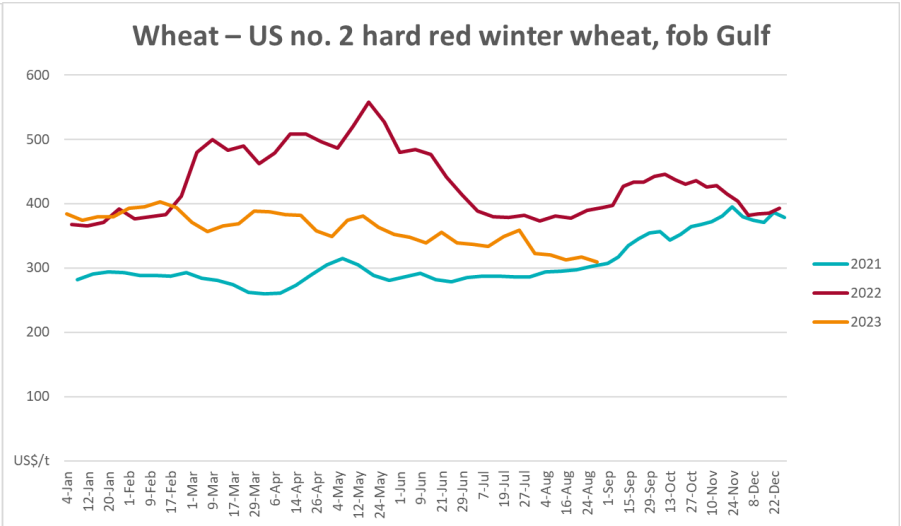
Indicator	Week ended	Unit	Latest Price	Previous Week	Weekly change	Price 12 months ago	Annual change
Selected world indicator prices							
AUD/USD Exchange rate	30-Aug	A$/US$	0.65	0.64	0%	0.68	-5%
Wheat – US no. 2 hard red winter wheat, fob Gulf	30-Aug	US$/t	309	317	-3%	397	-22%
Corn – US no. 2 yellow corn, fob Gulf	30-Aug	US$/t	209	209	0%	310	-33%
Canola – Rapeseed, Canada, fob Vancouver	30-Aug	US$/t	619	615	1%	651	-5%
Cotton – Cotlook 'A' Index	30-Aug	USc/lb	97	95	1%	122	-21%
Sugar – Intercontinental Exchange, nearby futures, no.11 contract	30-Aug	USc/lb	25.8	24.2	7%	18	45%
Wool – Eastern Market Indicator	23-Aug	Ac/kg clean	1,131	1,127	0%	1,407	-20%
Wool – Western Market Indicator	23-Aug	Ac/kg clean	1,270	1,320	-4%	1,473	-14%
Selected Australian grain export prices							
Milling Wheat – APW, Port Adelaide, SA	30-Aug	A$/t	474	479	-1%	547	-13%
Feed Wheat – ASW, Port Adelaide, SA	30-Aug	A$/t	452	457	-1%	503	-10%
Feed Barley – Port Adelaide, SA	30-Aug	A$/t	379	381	0%	464	-18%
Canola – Kwinana, WA	30-Aug	A$/t	854	858	-1%	1,035	-18%
Grain Sorghum – Brisbane, QLD	30-Aug	A$/t	513	514	0%	440	17%
Selected domestic livestock indicator prices							
Beef – Eastern Young Cattle Indicator	30-Aug	Ac/kg cwt	499	525	-5%	1,002	-50%
Mutton – Mutton indicator (18–24 kg fat score 2–3), Vic	30-Aug	Ac/kg cwt	196	206	-5%	588	-67%
Lamb – Eastern States Trade Lamb Indicator	23-Aug	Ac/kg cwt	434	451	-4%	742	-41%
Pig – Eastern Seaboard (60.1–75 kg), average of buyers & sellers	16-Aug	Ac/kg cwt	343	343	0%	367	-7%
Goats – Eastern States (12.1–16 kg)	23-Aug	Ac/kg cwt	303	303	0%	887	-66%
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%

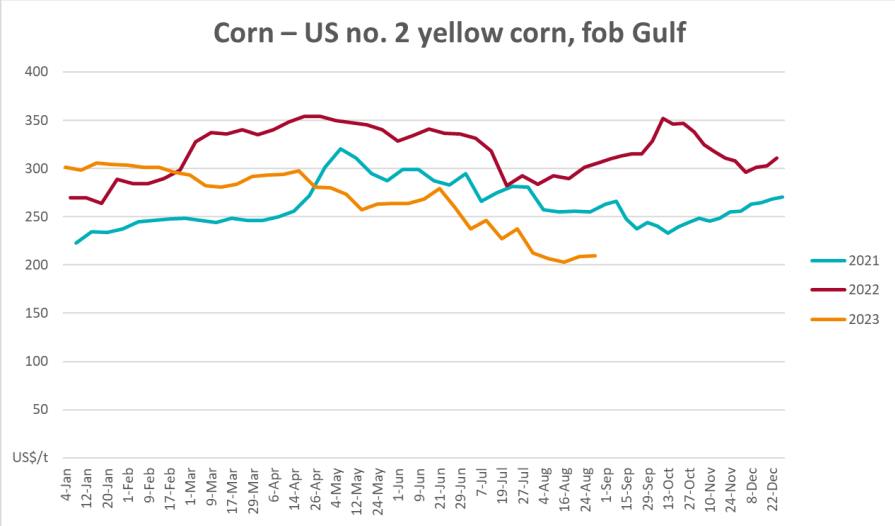
Global Dairy Trade (GDT) weighted average prices [a]							
Dairy – Whole milk powder	16-Aug	US$/t	2,548	2,864	-11%	3,544	-28%
Dairy – Skim milk powder	16-Aug	US$/t	2,333	2,454	-5%	3,524	-34%
Dairy – Cheddar cheese	16-Aug	US$/t	4,127	3,910	6%	4,798	-14%
Dairy – Anhydrous milk fat	16-Aug	US$/t	4,452	4,705	-5%	5,518	-19%

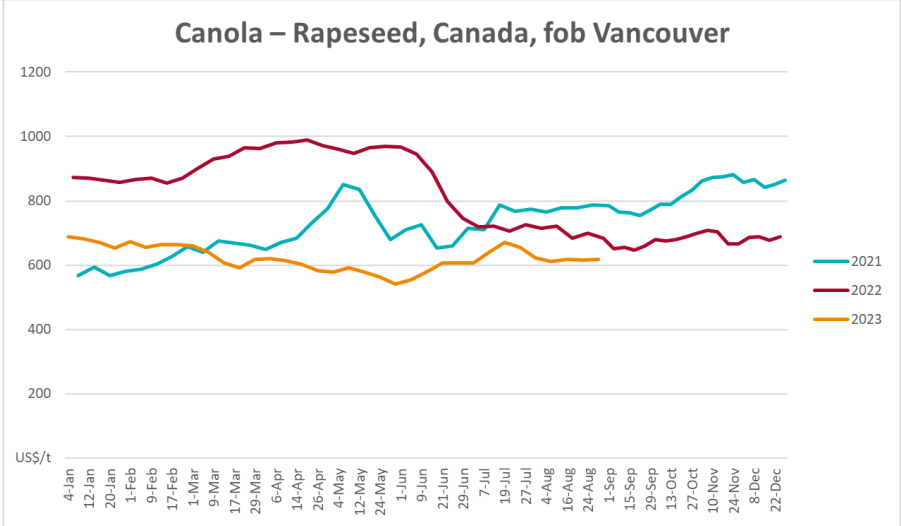
a Global Dairy Trade prices are updated twice monthly on the first and third Tuesday of each month.

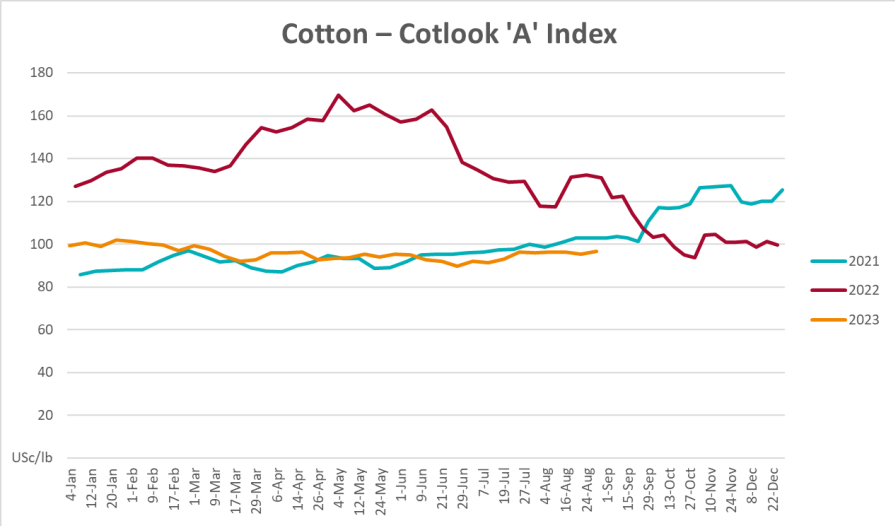
3.1. Selected world indicator prices










Cotton – Cotlook 'A' Index
180
160
140
120
100
80
60
40
20
USc/lb
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
4-Aug
16-Aug
24-Aug
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8-Dec
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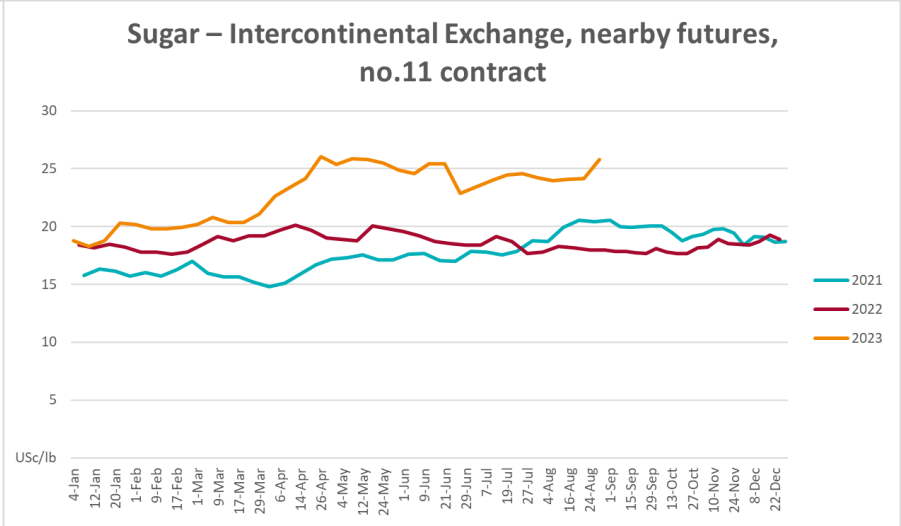
Sugar – Intercontinental Exchange, nearby futures, no.11 contract
30
25
20
15
10
5
USc/lb
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
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9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
4-Aug
16-Aug
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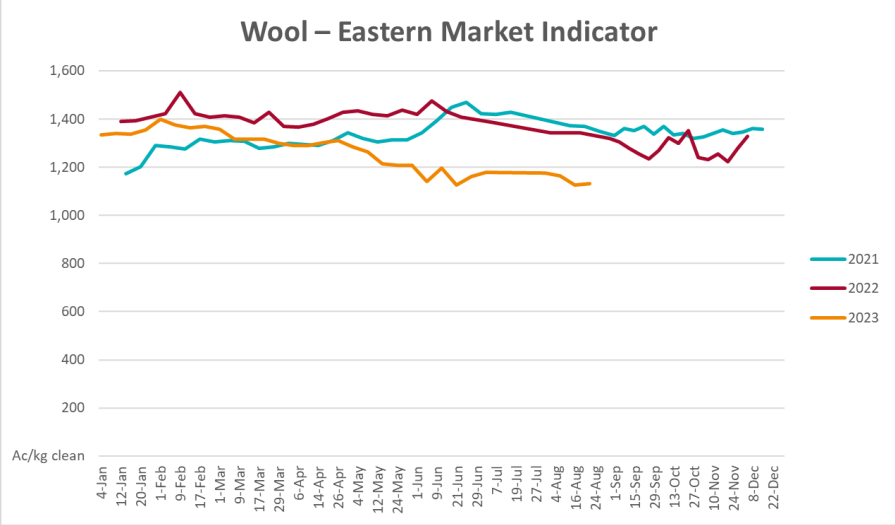
Wool – Eastern Market Indicator
1,600
1,400
1,200
1,000
800
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400
200
Ac/kg clean
4-Jan
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20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
4-Aug
16-Aug
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29-Sep
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8-Dec
22-Dec
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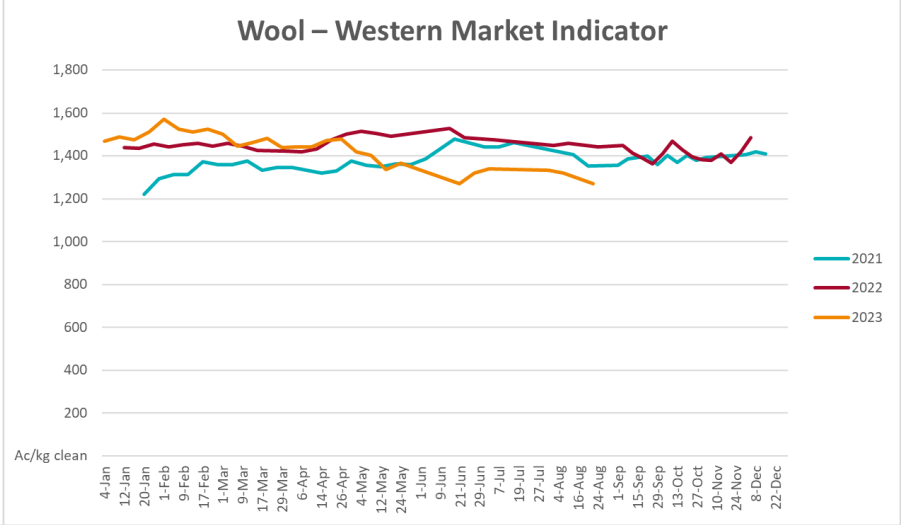
Wool – Western Market Indicator
1,800
1,600
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600
400
200
Ac/kg clean
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
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17-Mar
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6-Apr
14-Apr
26-Apr
4-May
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1-Jun
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7-Jul
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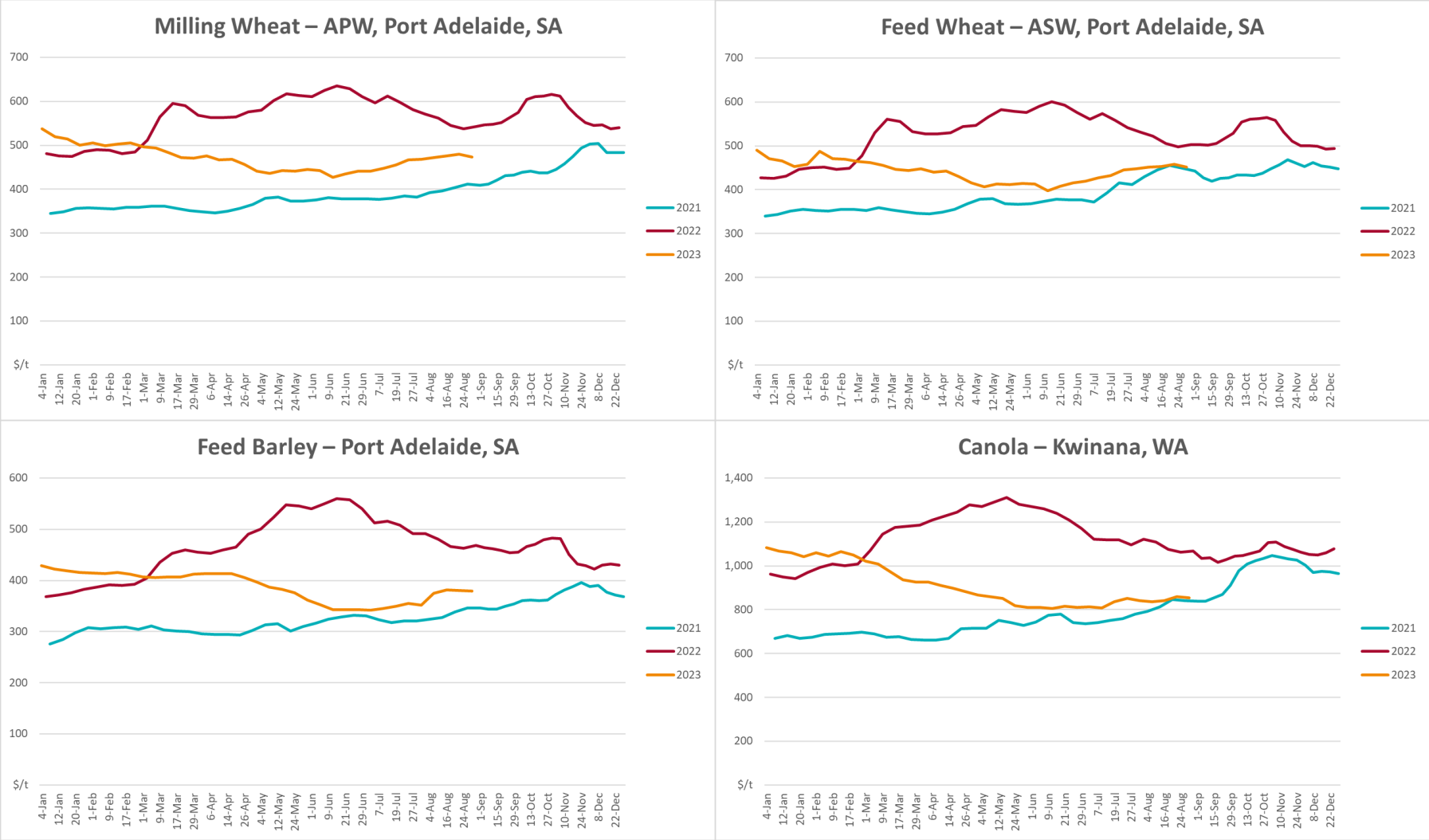
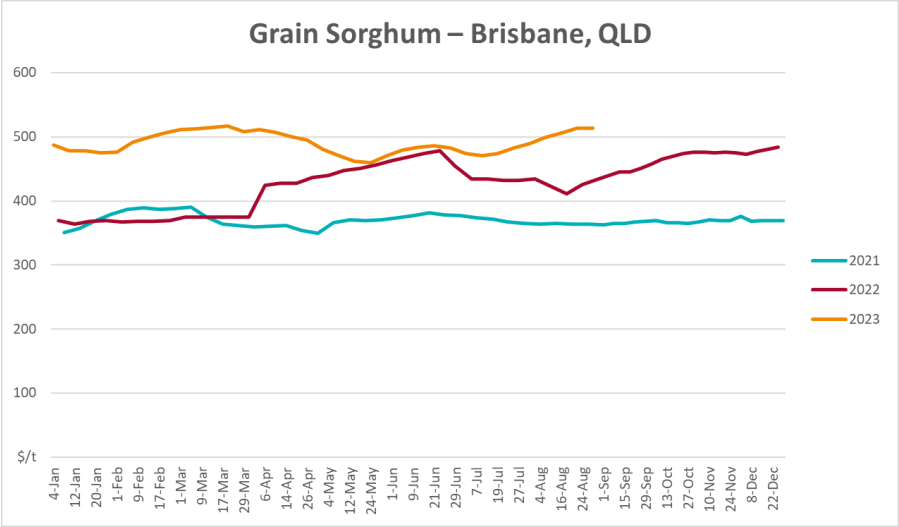
3.2. Selected domestic crop indicator prices




Grain Sorghum – Brisbane, QLD
600
500
400
300
200
100
$/t
4-Jan
12-Jan
20-Jan
1-Feb
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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
4-Aug
16-Aug
24-Aug
1-Sep
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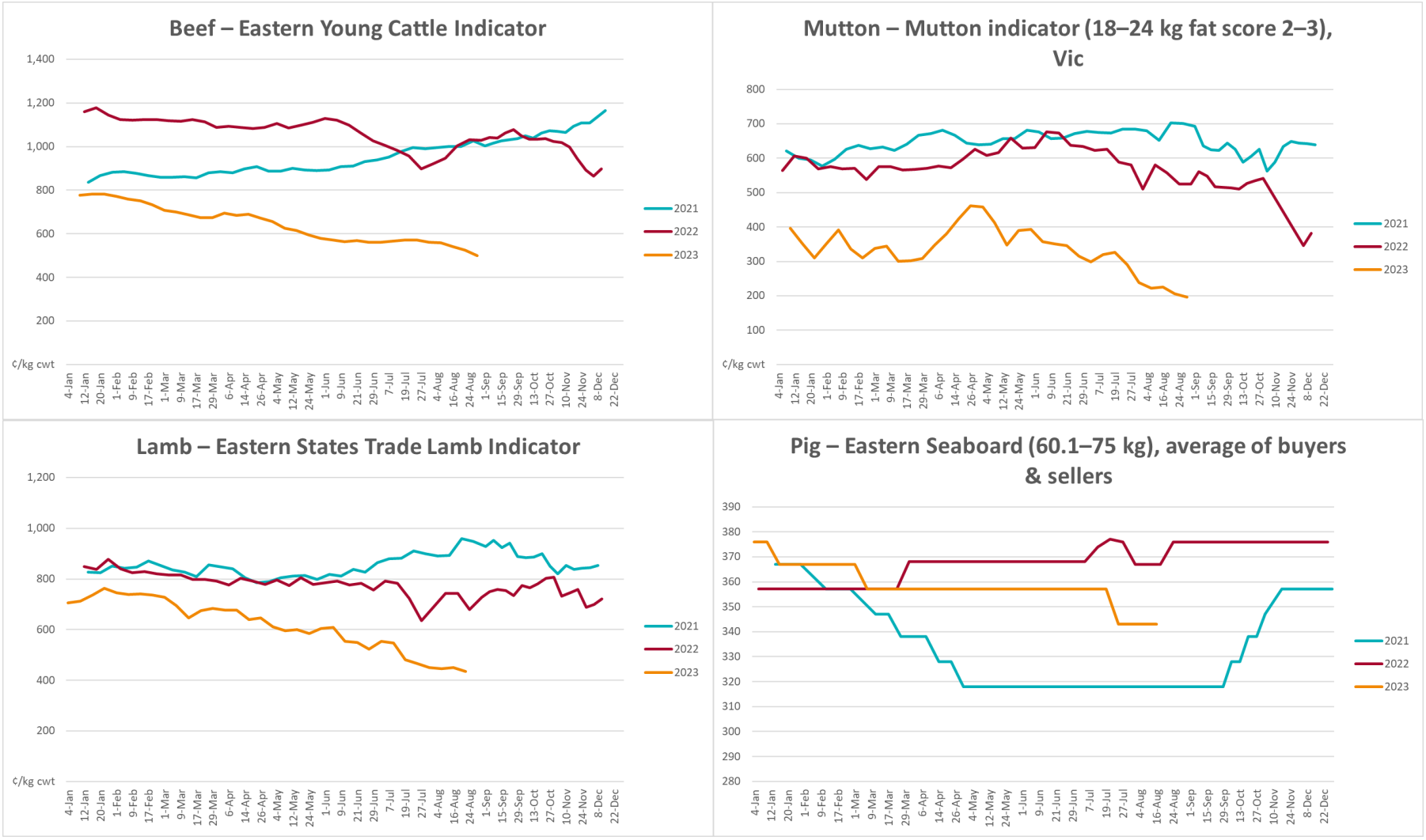
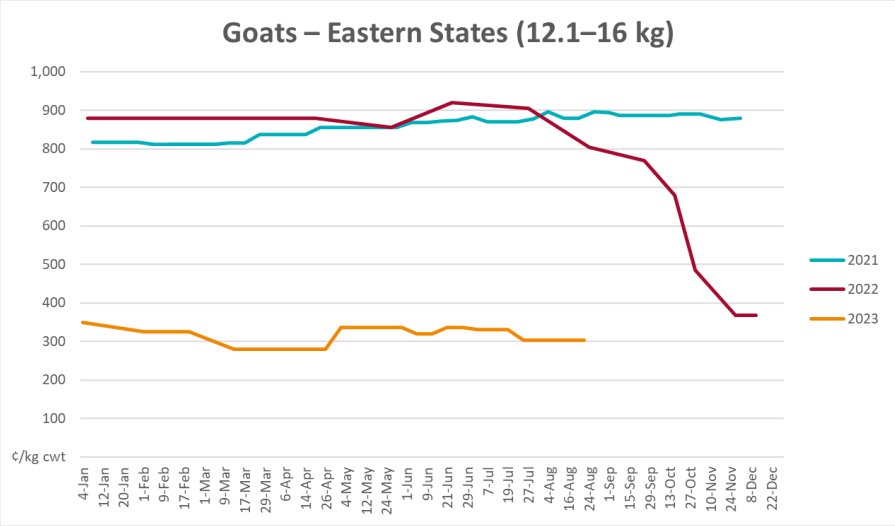
24-Nov
8-Dec
22-Dec
2021
2022
2023

3.3. Selected domestic livestock indicator prices




Goats – Eastern States (12.1–16 kg)
1,000
900
800
700
600
500
400
300
200
100
¢/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
4-Aug
16-Aug
24-Aug
1-Sep
15-Sep
29-Sep
13-Oct
27-Oct
10-Nov
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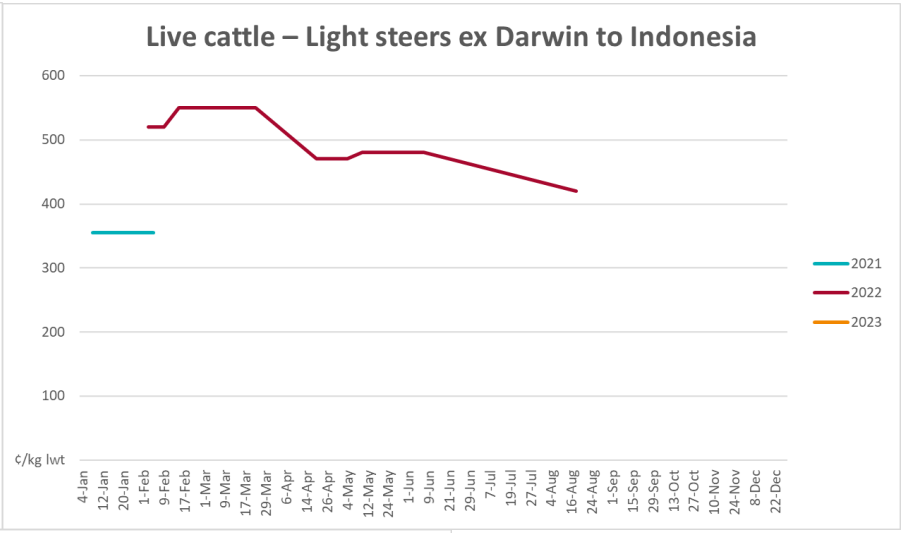
8-Dec
22-Dec
2021
2022
2023


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
4-Aug
16-Aug
24-Aug
1-Sep
15-Sep
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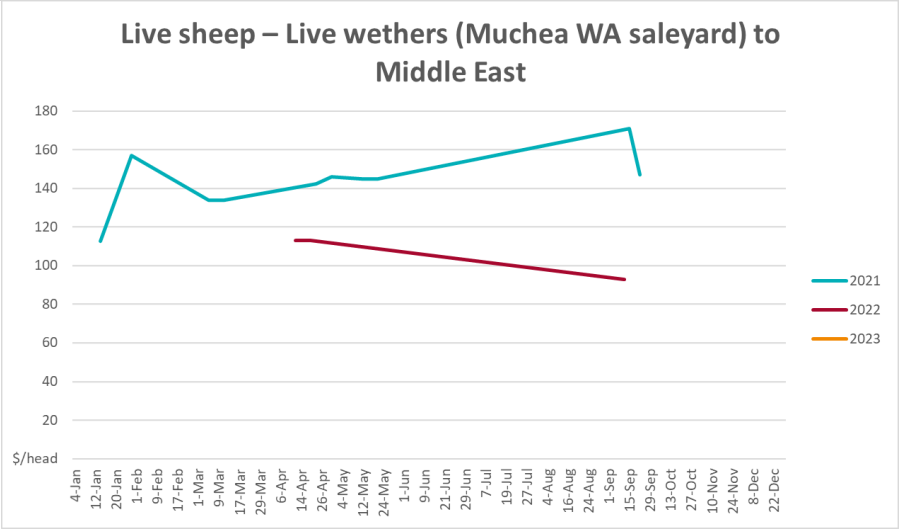
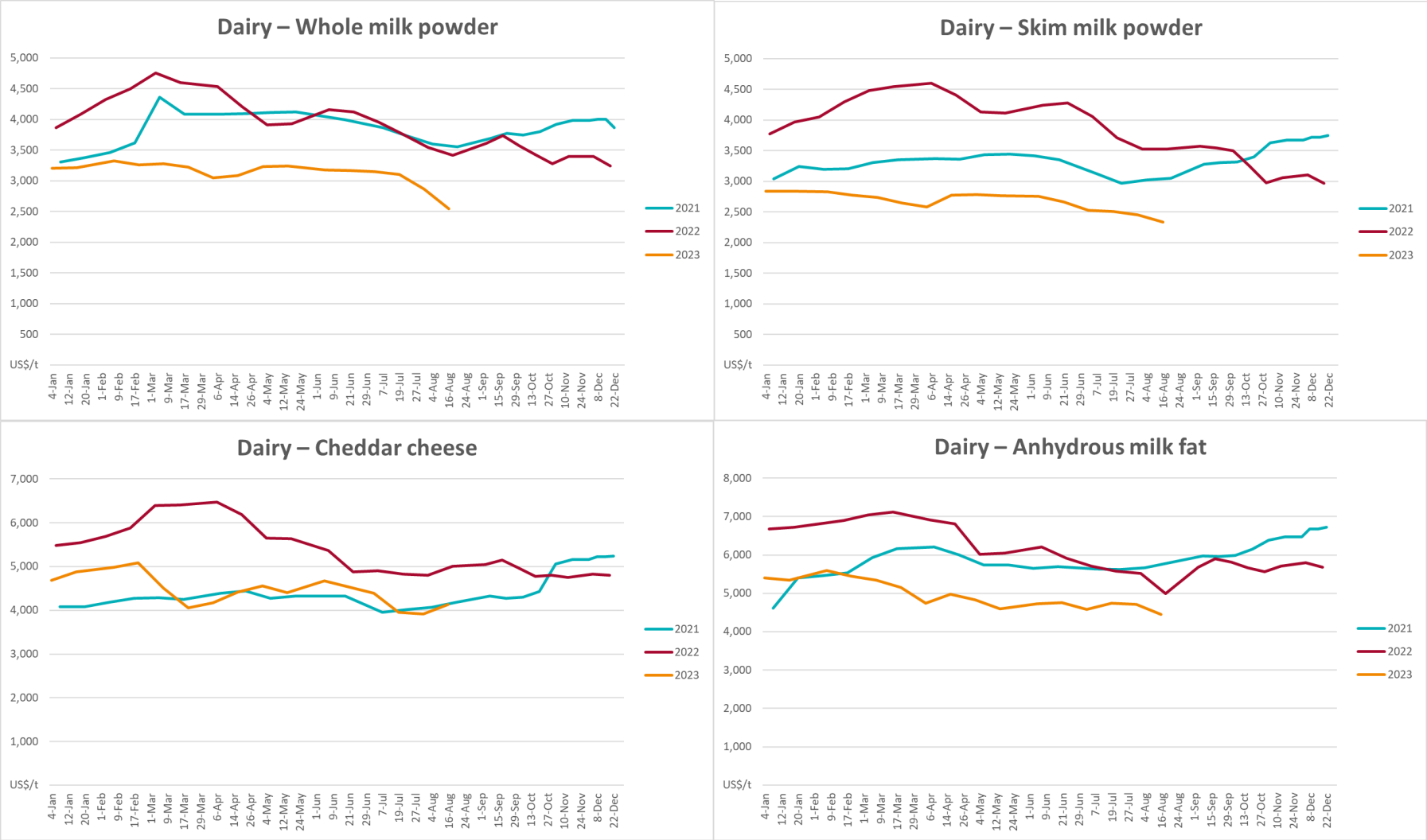
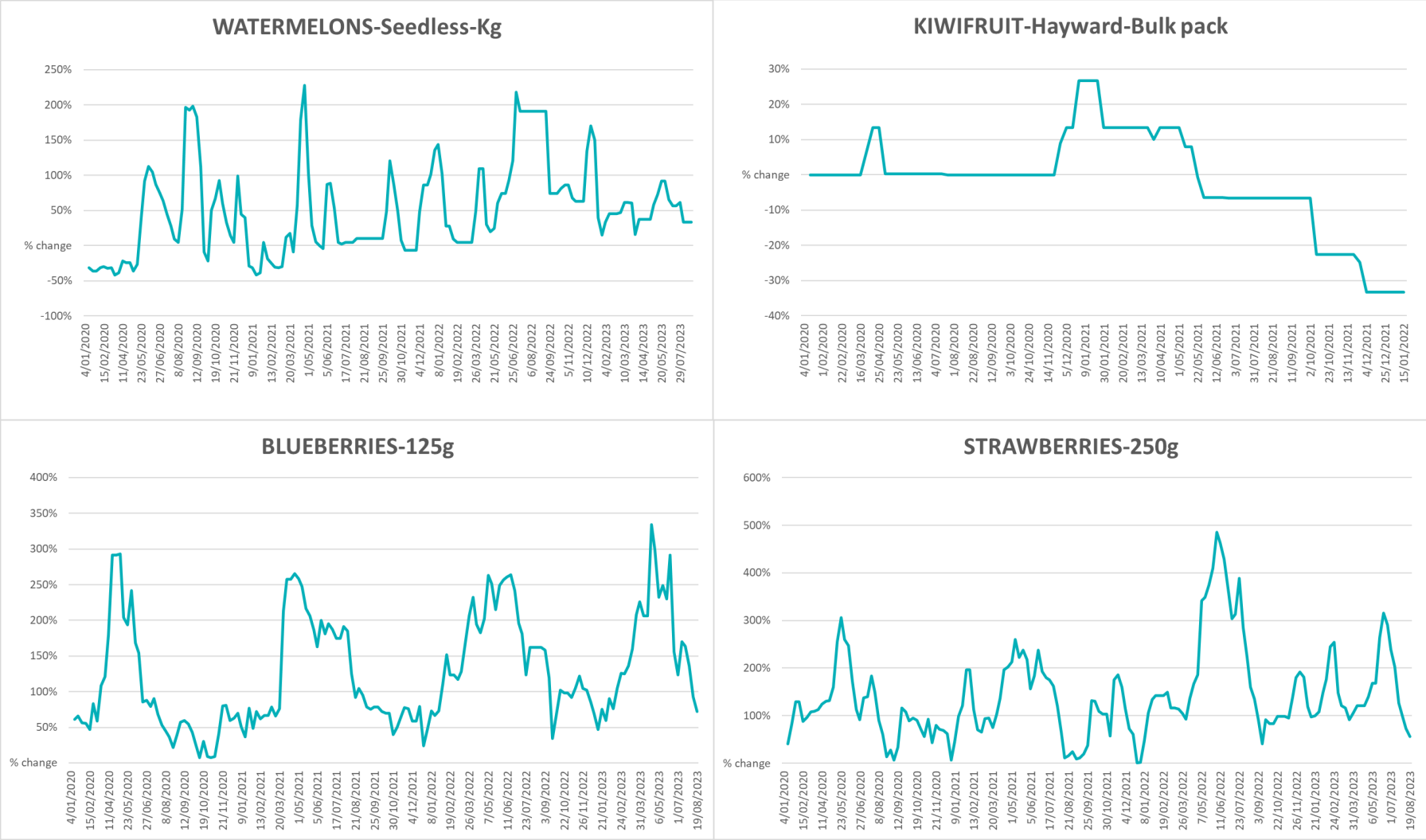
10-Nov
24-Nov
8-Dec
22-Dec
2021
2022
2023

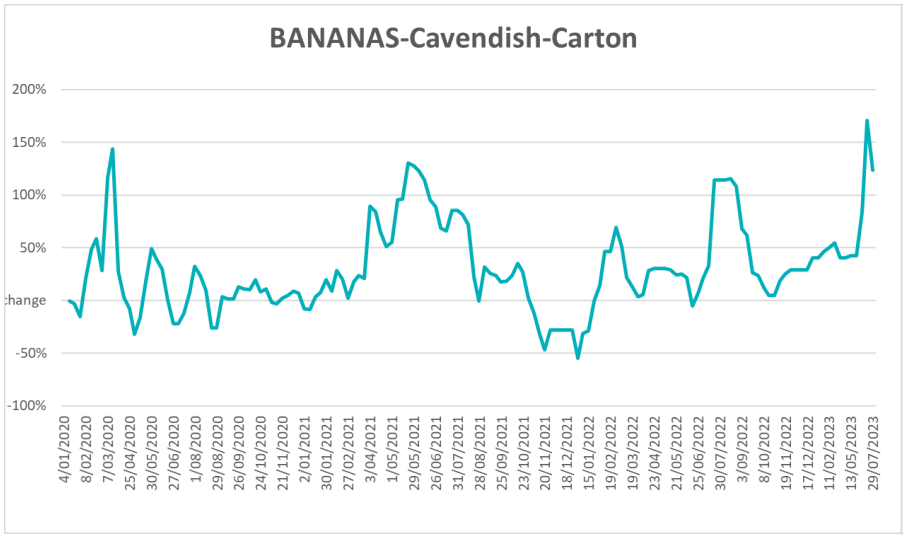

Live sheep – Live wethers (Muchea WA saleyard) to Middle East
180
160
140
120
100
80
60
40
20
$/head
4-Jan
12-Jan
20-Jan
1-Feb
9-Feb
17-Feb
1-Mar
9-Mar
17-Mar
29-Mar
6-Apr
14-Apr
26-Apr
4-May
12-May
24-May
1-Jun
9-Jun
21-Jun
29-Jun
7-Jul
19-Jul
27-Jul
4-Aug
16-Aug
24-Aug
1-Sep
15-Sep
29-Sep
13-Oct
27-Oct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

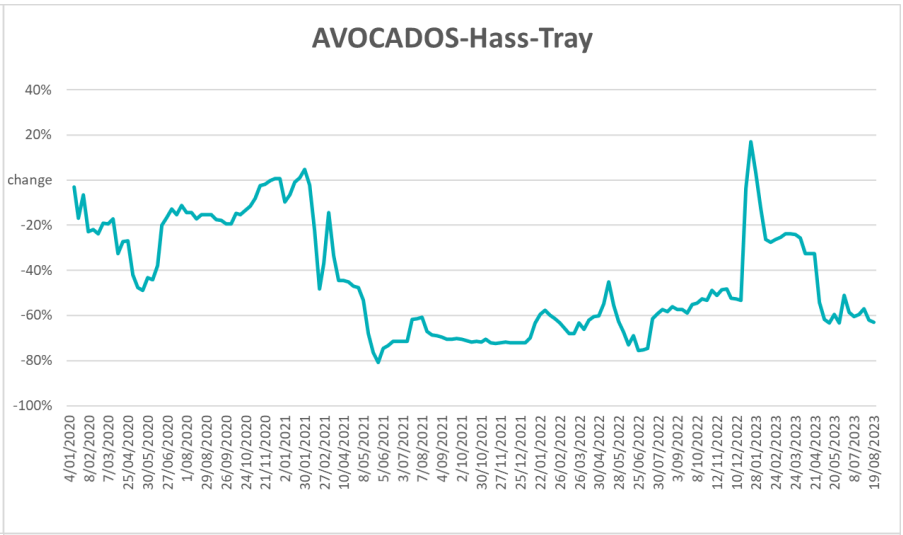
3.4. Global Dairy Trade (GDT) weighted average prices

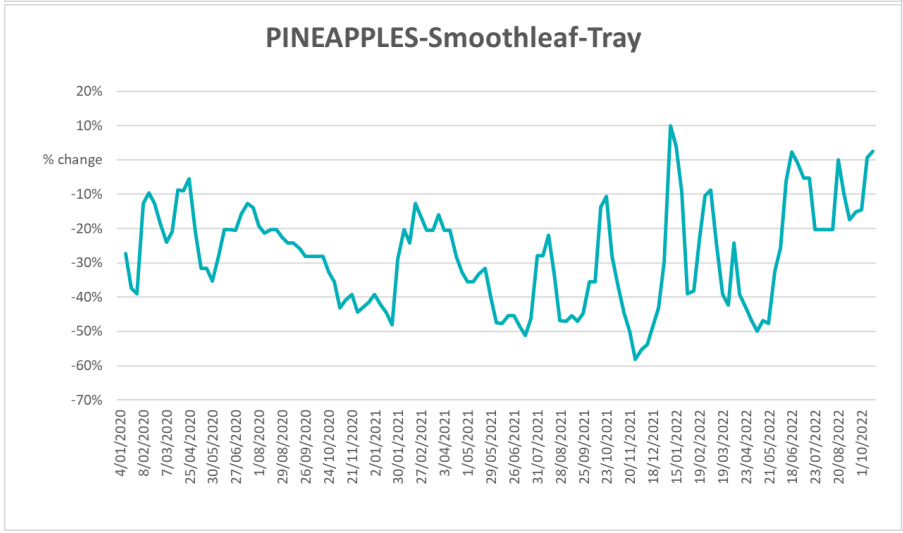


3.5. Selected fruit and vegetable prices




BANANAS-Cavendish-Carton
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
25/06/2022
30/07/2022
3/09/2022
8/10/2022
19/11/2022
17/12/2022
11/02/2023
13/05/2023
29/07/2023


AVOCADOS-Hass-Tray
40%
20%
change
-20%
-40%
-60%
-80%
-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
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
19/08/2023


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
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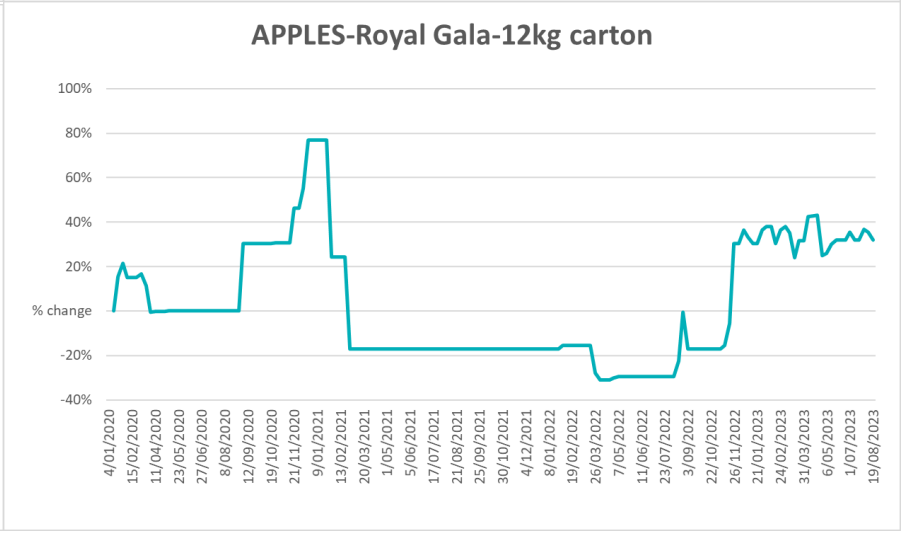
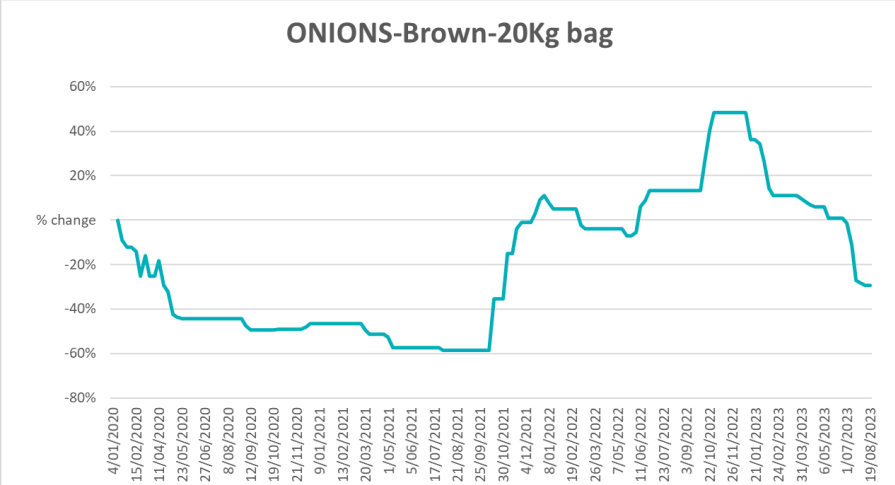
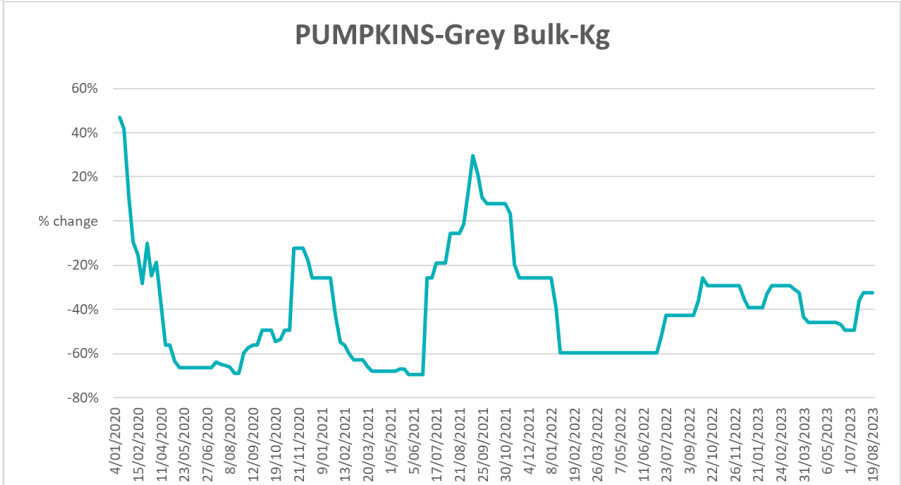
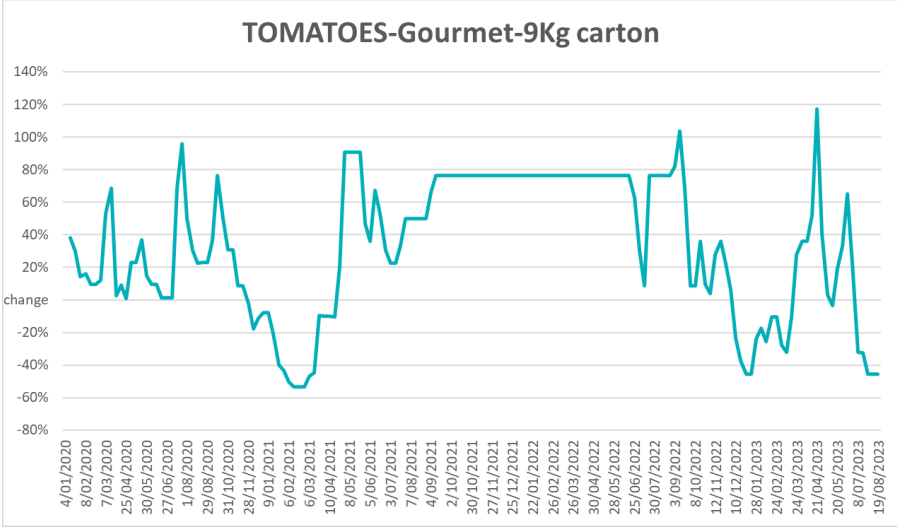
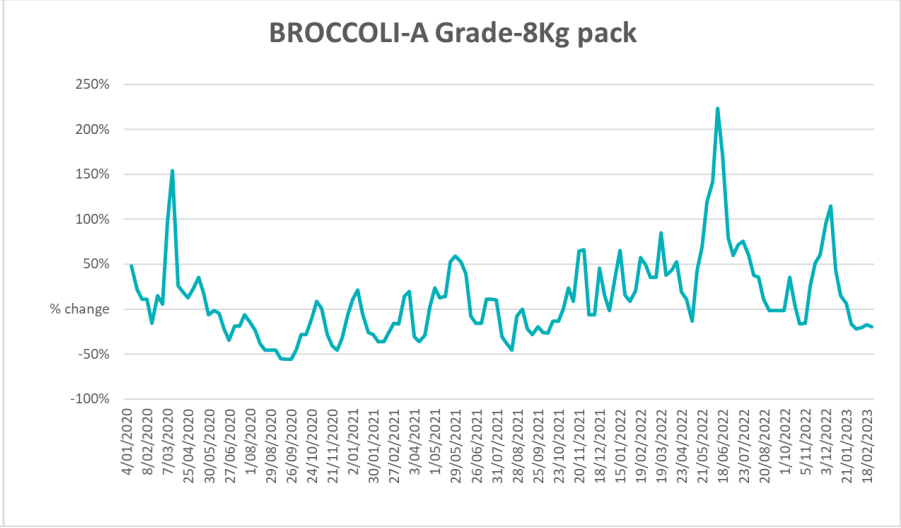
20/08/2022
1/10/2022

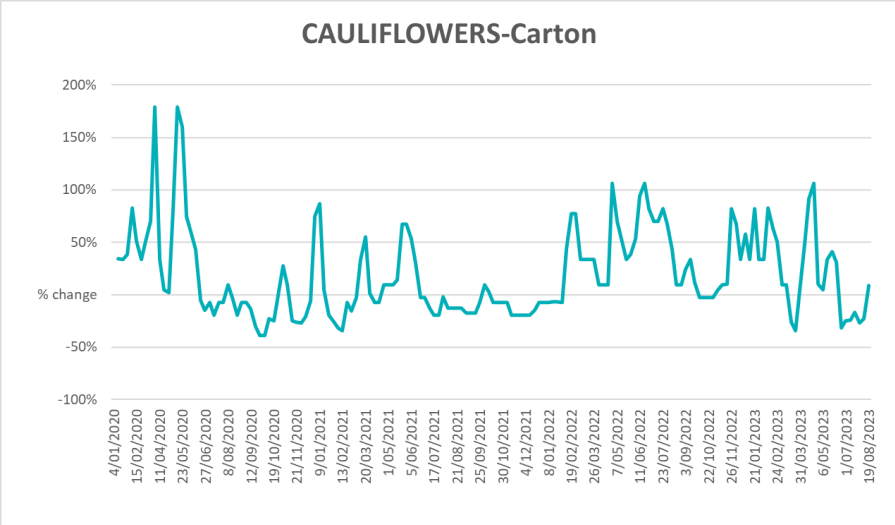

APPLES-Royal Gala-12kg carton
100%
80%
60%
40%
20%
% change
-20%
-40%
4/01/2020
15/02/2020
11/04/2020
23/05/2020
27/06/2020
8/08/2020
12/09/2020
19/10/2020
21/11/2020
9/01/2021
13/02/2021
20/03/2021
1/05/2021
5/06/2021
17/07/2021
21/08/2021
25/09/2021
30/10/2021
4/12/2021
8/01/2022
19/02/2022
26/03/2022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


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
19/08/2023


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
19/08/2023


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
19/08/2023


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
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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
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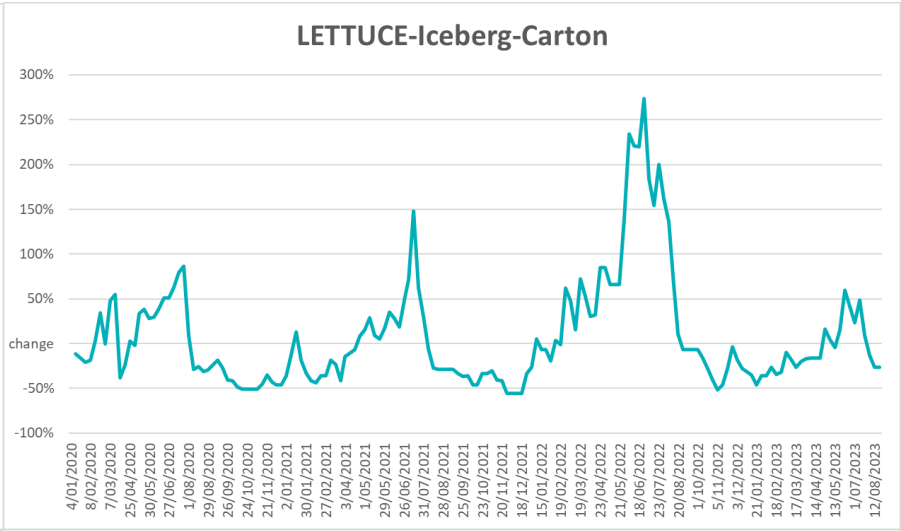
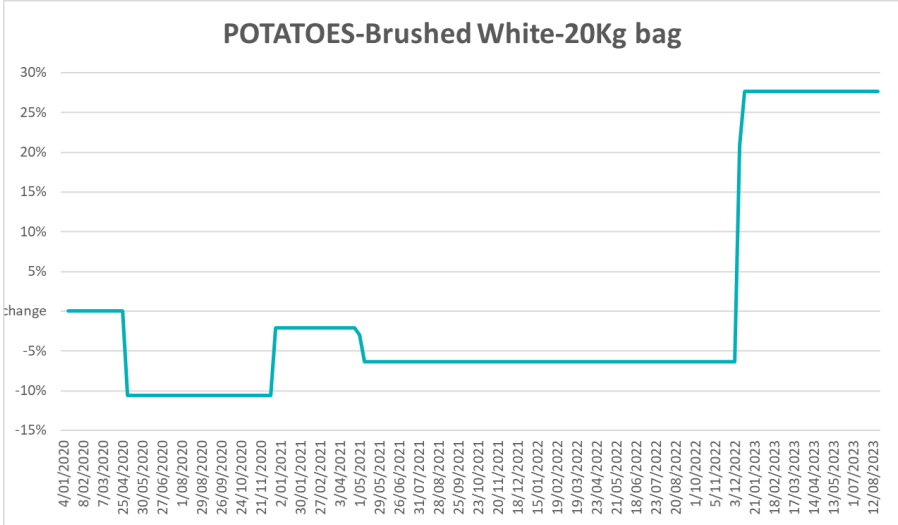
31/03/2023
6/05/2023
1/07/2023
19/08/2023


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
12/08/2023


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
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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
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18/02/2023
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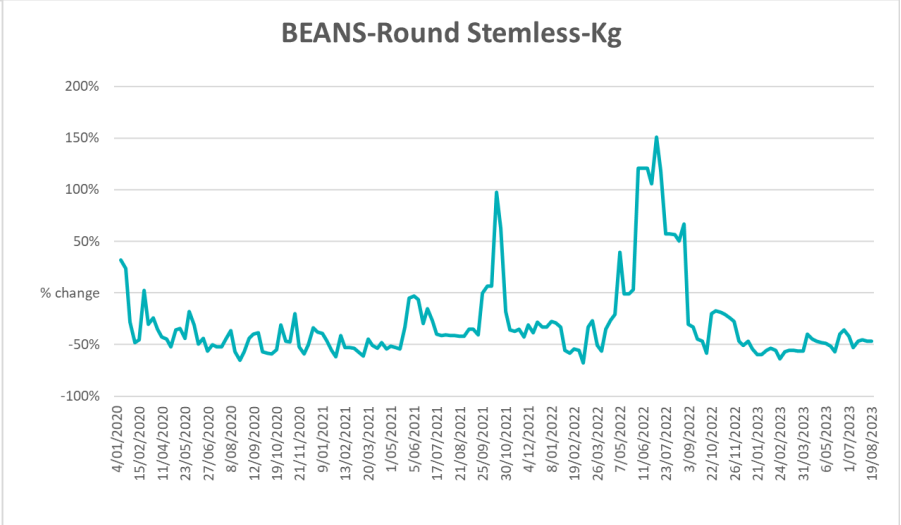
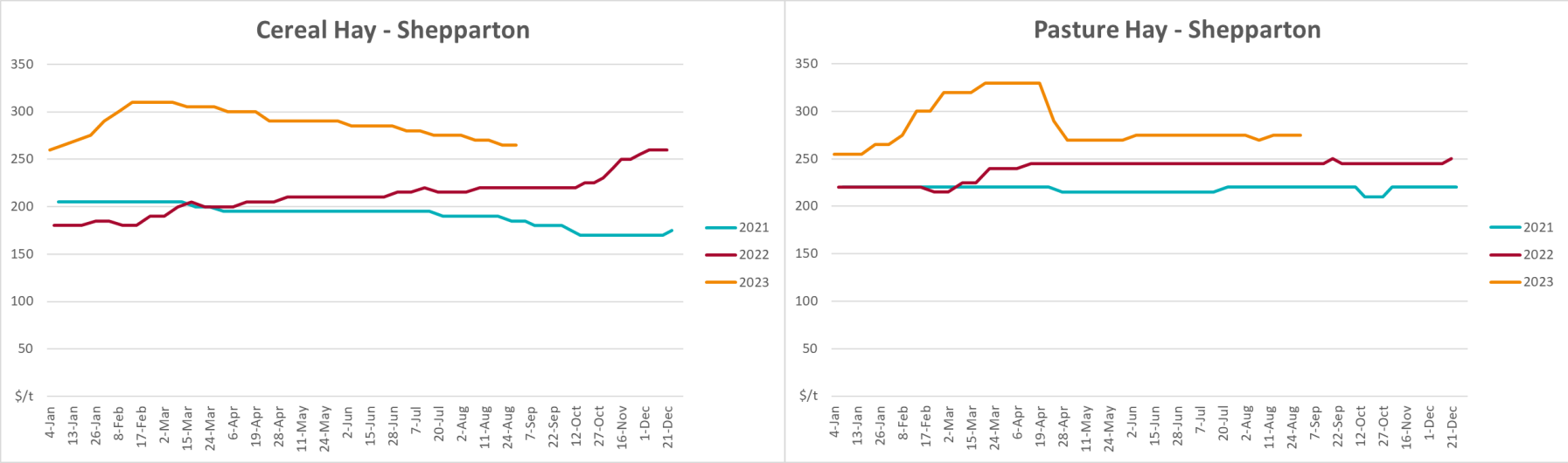
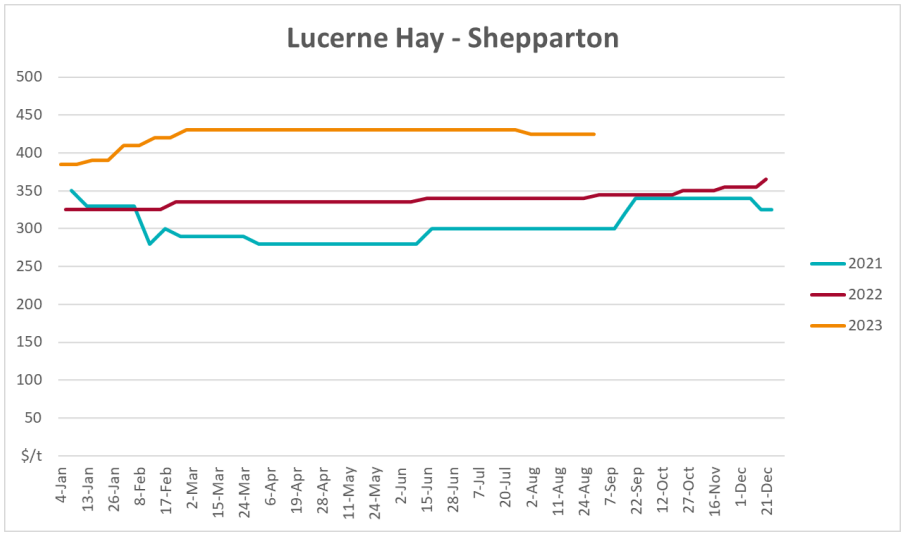
13/05/2023
1/07/2023
12/08/2023


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
19/08/2023

3.6 Selected domestic fodder indicator prices




Lucerne Hay - Shepparton
500
450
400
350
300
250
200
150
100
50
$/t
4-Jan
13-Jan
26-Jan
8-Feb
17-Feb
2-Mar
15-Mar
24-Mar
6-Apr
19-Apr
28-Apr
11-May
24-May
2-Jun
15-Jun
28-Jun
7-Jul
20-Jul
2-Aug
11-Aug
24-Aug
7-Sep
22-Sep
12-Oct
27-Oct
16-Nov
1-Dec
21-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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Department of Agriculture, Fisheries and Forestry

GPO Box 858 Canberra ACT 2601

Telephone 1800 900 090

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