Australian Government
Department of Agriculture, Fisheries and Forestry

ABARES

Weekly Australian Climate, Water and Agricultural Update

No. 45/2023

16 November 2023

Summary of key issues

- For the week ending 15 November 2023, troughs and lows resulted in showers and thunderstorms over eastern New South Wales and Victoria, northern and southern Western Australia, southern Queensland, and across Northern Territory.
    - Rainfall totals of up to 50 millimetres were recorded northern New South Wales and Western Australian cropping regions.
    - While welcomed, these falls are unlikely to have been sufficient to spark widespread sowing of dryland summer crops in northern New South Wales.
    - Across parts of Western Australia, rainfall and hail has brought an abrupt halt to harvest activities and are likely to result in crop losses and grain quality downgrades in the worst affected areas.
- Over the coming week, troughs will generate showers across eastern, central and northern Australia.
    - Rainfall totals up to 100 millimetres are forecast for Queensland and northern New South Wales and are likely to give some growers confidence to plant summer crops such as sorghum.
    - Dry conditions in Victoria, South Australia and Western Australia should allow for the harvest to continue without delay.
- Globally, variable rainfall during October has led to mixed crop production prospects.
    - Global production conditions were generally favourable for maize and soybeans, but variable for wheat and rice.
    - Global production conditions have deteriorated compared to those used to formulate ABARES forecasts of global grain supplies and world prices in its September 2023 edition of the Agricultural Commodities Report. As a result, global grain and oilseed production is likely to be lower than that forecast in September.
- Water storage levels in the Murray-Darling Basin (MDB) decreased between 9 November 2023 and 16 November 2023 by 65 gigalitres (GL). Current volume of water held in storage is 19 933 GL. This is 12 percent or 2603 GL less than at the same time last year.
- Allocation prices in the Victorian Murray below the Barmah Choke decreased from $158 on 9 November 2023 to $146 on 16 November 2023. Prices are lower in the Goulburn-Broken due to the binding of the Goulburn intervalley trade limit.

1. Climate

1.1. Rainfall this week

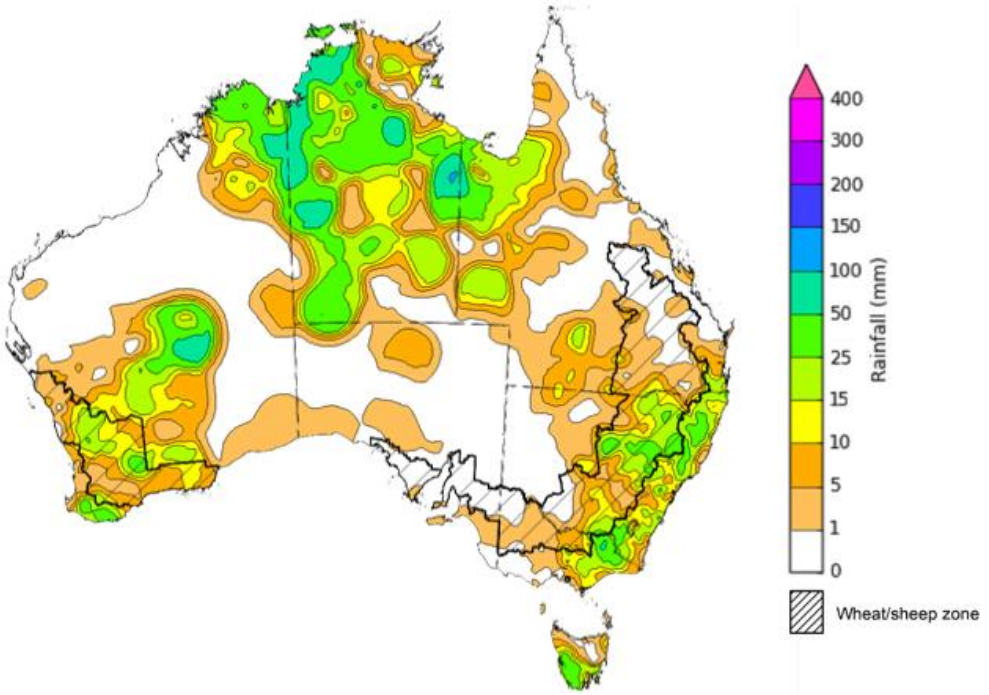
For the week ending 15 November 2023, troughs and lows resulted in showers and thunderstorms over parts of eastern New South Wales and Victoria, northern and southern Western Australia, northern and southern Queensland, southern Tasmania, and large areas of the Northern Territory.

Across cropping regions, rainfall totals of up to 50 millimetres were recorded in northern New South Wales and Western Australia. With the early sorghum-planting window now closing across much of northern New South Wales these falls, while welcomed, are unlikely to have been sufficient to spark widespread sowing of dryland summer crops. Some producers who recorded 50 millimetres or more may plant the occasional dryland paddock to add to what has already gone in under irrigation. Many producers will likely wait to see if the widespread rainfall for the next 8-days eventuates as forecast.

Across parts of Western Australia, rainfall and hail has brought an abrupt halt to harvest activities. There have been reports of a completely wipeout of unharvested crops on affected properties and the concern of grain quality downgrades in the worst affect areas.

Little to no rainfall recorded across remaining cropping areas. The dry conditions across remaining cropping regions would have allowed for the uninterrupted harvest of winter crops.

Rainfall for the week ending 15 November 2023



 Issued: 15/11/2023

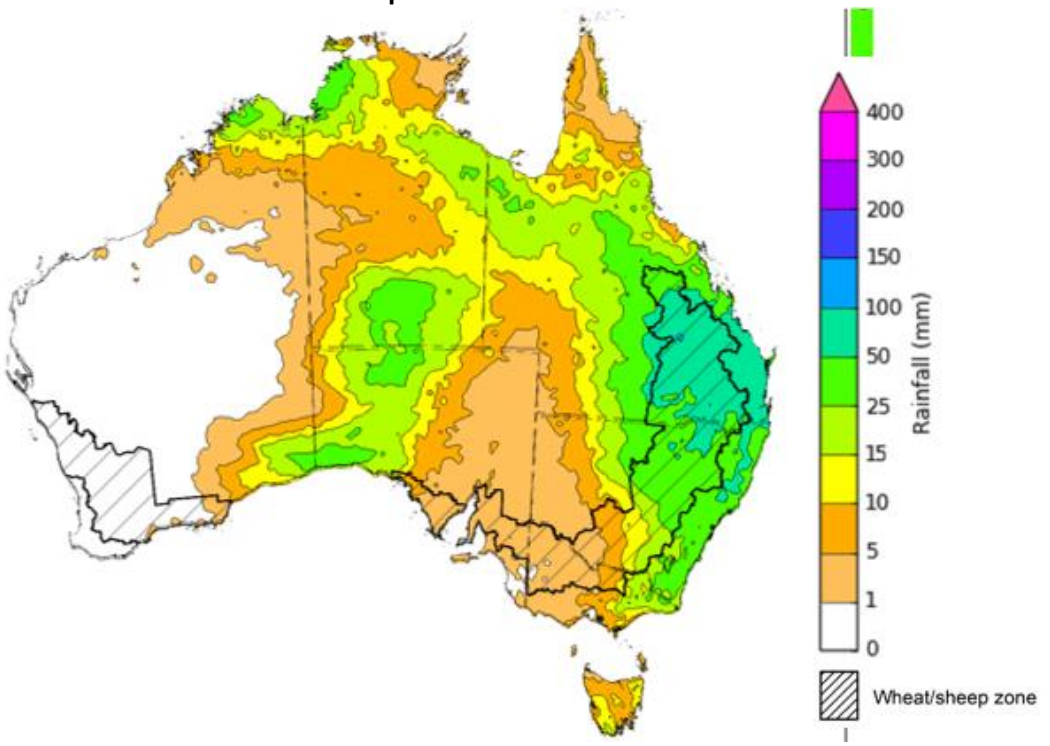
Note: The rainfall analyses and associated maps utilise data contained in the Bureau of Meteorology climate database, the Australian Data Archive for Meteorology (ADAM). The analyses are initially produced automatically from real-time data with limited quality control. They are intended to provide a 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. Rainfall forecast for the next eight days

Over the 8 days to 23 November 2023, troughs will generate showers across eastern, central and northern Australia, with rainfall in excess of 50 millimetres in north-eastern New South Wales and south-eastern Queensland.

Across cropping regions, rainfall totals up to 100 millimetres are forecast for Queensland and northern New South Wales. This rainfall is likely to give some growers confidence to plant summer crops such as sorghum. The dry expected conditions in the Victoria, South Australia and Western Australian cropping regions will allow for the uninterrupted harvest of winter crops.

Total forecast rainfall for the period 16 November 2023 to 23 November 2023



 Issued 15/11/2023
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.

1.3. Global production conditions and climate outlook

Crop production is affected by long-term trends in average rainfall and temperature, interannual climate variability, shocks during specific growth stages, and extreme weather events. Some crops are more tolerant than others to certain types of stresses, and at each growth stage, different types of stresses affect each crop species in different ways.

The precipitation anomalies and outlooks presented here give an indication of the current and future state of production conditions for the major grain and oilseed producing countries which are responsible for over 80% of global production. This is an important input to assessing the global grain supply outlook.

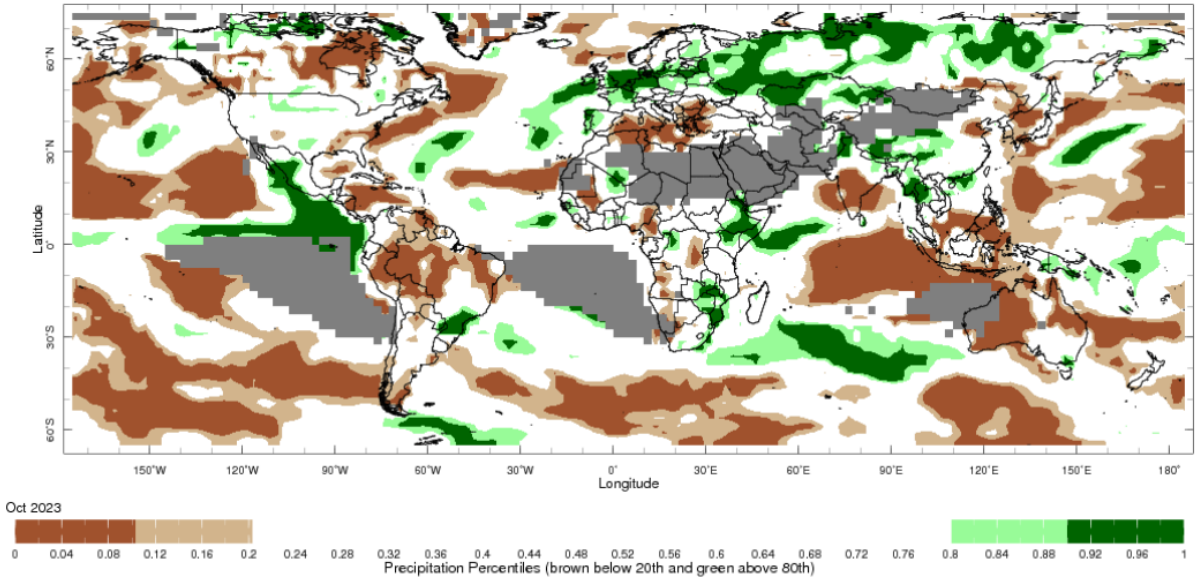
October precipitation percentiles and current production conditions

As of the end of October 2023, precipitation was highly variable for the world's major grain-producing and oilseed-producing regions.

In the northern hemisphere, precipitation was generally average to above average across major grain and oilseed producing regions, except for some areas in Canada, much of southern India, and north-eastern China where precipitation was below average.

In the southern hemisphere, October precipitation across Brazil was variable ranging from below average in the north-western to average to above average in the south. Argentina recorded generally average precipitation in October. In Australia, October precipitation was generally below average, except for parts in the southeast where it was above average.

Global precipitation percentiles, October 2023



Note: The world precipitation percentiles indicate a ranking of precipitation for October, with the driest (0th percentile) being 0 on the scale and the wettest (100th percentile) being 1 on the scale. Percentiles are based on precipitation estimates from the NOAA Climate Prediction Center's Climate Anomaly Monitoring System Outgoing Precipitation Index dataset. Precipitation estimates for October 2023 are compared with rainfall recorded for that period during the 1981 to 2010 base period.

Source: International Research Institute for Climate and Society

As of 28 October 2023, global production conditions were generally favourable for maize and soybeans, but variable for wheat and rice. In the northern hemisphere, recent dry conditions have affected planting and crop establishment in Ukraine and the Russian Federation, but October rains have established favourable soil moisture for sowing and germination in Türkiye, UK and China. In the southern hemisphere, the area affected by dry conditions continues to expand in Argentina and Australia.

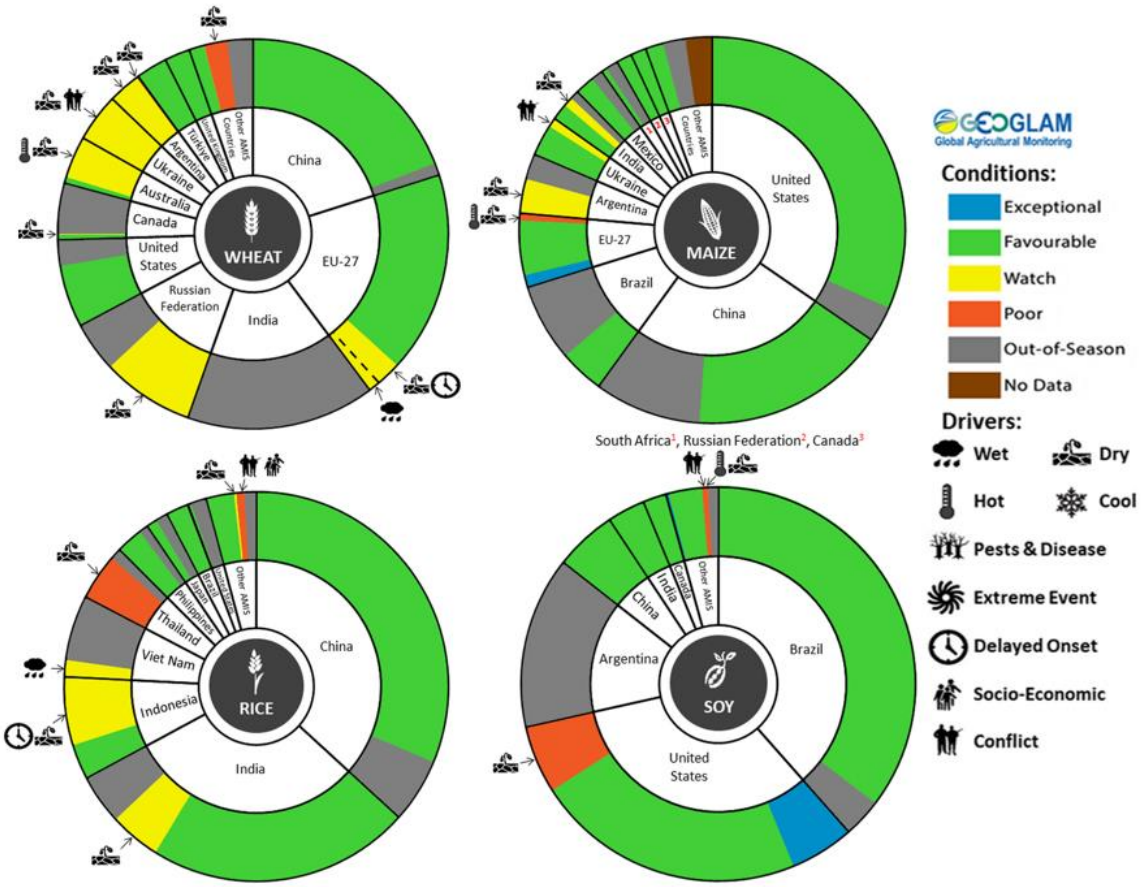
Wheat: in the southern hemisphere, dryness persists in parts of Australia and Argentina as winter harvest begins. In the northern hemisphere, 2024–25 winter crop planting continues under mixed conditions.

Maize: in the northern hemisphere, harvest is nearing completion with improvement in parts of the Russian Federation, US, and Mexico. Planting is ramping up in the southern hemisphere with expanding dryness in Argentina.

Rice: in China, harvesting conditions are favourable for both single and late-season crops. In India, Kharif conditions remain favourable except in the south. In Southeast Asia, poor wet-season outcomes are expected in Thailand, and limited rains are impacting planting in Indonesia.

Soybeans: in the northern hemisphere, harvesting is nearing completion under generally favourable conditions. However, poor crop outcomes are expected in parts of Nigeria, Romania, Ukraine, and the U.S.

Crop conditions, AMIS countries, 28 October 2023



AMIS Agricultural Market Information System. Source: AMIS

The global climate outlook for December 2023 to February 2024 indicates that variable rainfall conditions are expected for the world's major grain-producing and oilseed-producing regions. Outlooks and potential production impacts for the major grain and oilseed producing countries are presented in the table.

Rainfall outlook and potential impact on the future state of production conditions between December 2023 to February 2024

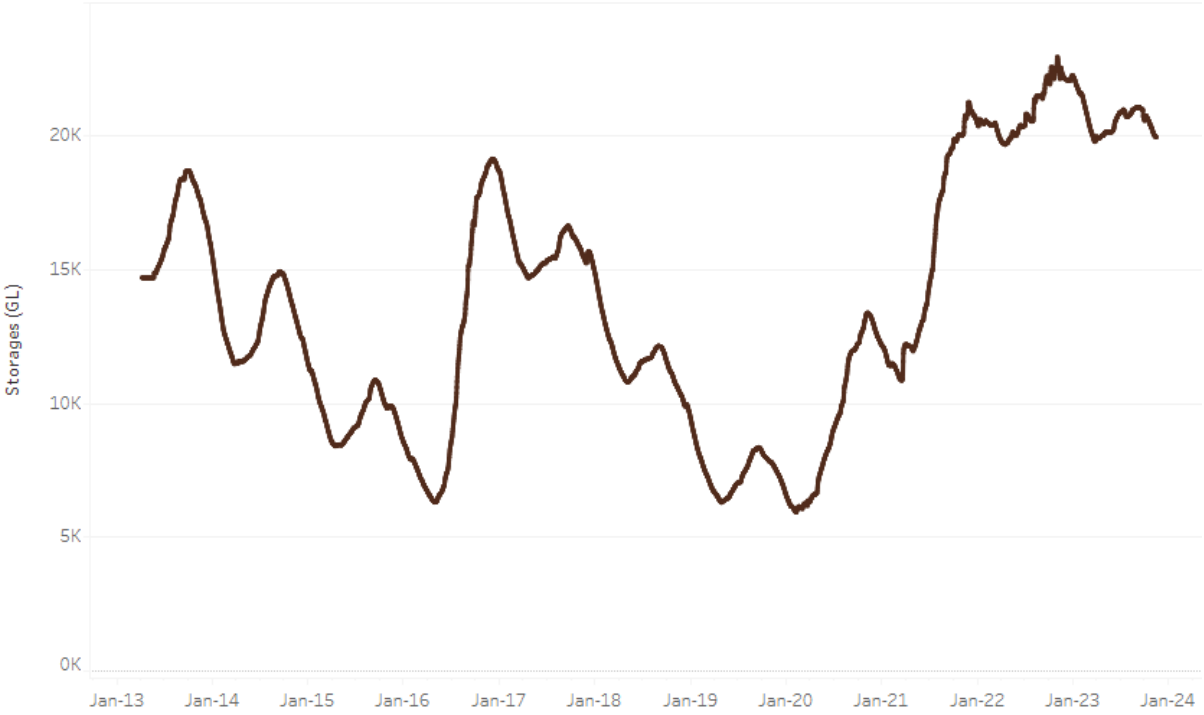
Region	December 2023 – February 2024 rainfall outlook	Potential impact on production
Argentina	Above average rainfall is likely through February 2024 across much of the east, including the major producing regions. This pattern is typical during El Niño events.	Above average rainfall is likely to support the silking, flowering, and grain filling of corn, as well as the flowering of cotton, ground nuts, soybeans, and sunflowers. The wet conditions mays also support the planting and vegetative growth of millet, rice, and sorghum.
Black Sea Region	Average to above average rainfall is more likely in Ukraine, Kazakhstan and the Russian Federation.	Winter wheat and canola will remain dormant throughout December to February across the Black Sea Region. Above average rainfall in many parts may provide sufficient snowpack to protect crops from winterkill.
Brazil	Through February 2024, below average rainfall is expected across much of the north and northeast, above average rainfall is likely across the centre and south. This is a typical El Niño pattern.	Above average rainfall in southern Brazil may disrupt harvesting of wheat in December but provide favourable conditions for flowering of corn, cotton, groundnuts, and soybeans, as well as the grain filling of corn in January. Below average rainfall in northern and central Brazil will likely affect the growth, flowering, and filling of soybeans and the early planted (smaller crop) of corn.
Canada	Average rainfall is more likely for much of Canada, especially across major production regions.	Average rainfall in Canada is likely to provide favourable conditions for winter wheat sowing and will likely provide sufficient snowpack to prevent winterkill of winter wheat and canola through December and January.
China	Average to above average rainfall is more likely across China.	Through December, January and February, winter wheat and canola will remain dormant. Average to above average rainfall is likely to decrease the risk of winterkill due to sufficient snowpack.
Europe	Average to above average rainfall is more likely across much of Europe.	Above average rainfall in central and northern Europe is likely to provide an adequate snowpack to limit the risk of winterkill for winter wheat and canola. Above average rainfall in southern Europe should provide favourable conditions for winter wheat crops.
South Asia (India)	Average to above average rainfall is more likely across India.	Average rainfall across much of India will support the harvesting of corn, cotton, groundnuts, millet, rice, sorghum, and sunflower. Above average rainfall in parts of central and northern India may support the vegetative growth and heading of winter wheat and canola.
Southeast Asia (SEA)	Generally average to above average rainfall is more likely.	Average to above average rainfall in SEA likely supports vegetative growth for corn and rice production throughout December to February. However, excessive rainfall may result in flooding and crop damage.
The United States	Above average rainfall is expected through February across much of the US.	Above average precipitation conditions expected across the northern US are likely to provide sufficient snow cover through winter to protect wheat and canola through dormancy.

2. Water

2.1. Water markets – current week

Water storage levels in the Murray-Darling Basin (MDB) decreased between 9 November 2023 and 16 November 2023 by 65 gigalitres (GL). Current volume of water held in storage is 19 933 GL. This is 12 percent or 2603 GL less than at the same time last year.

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

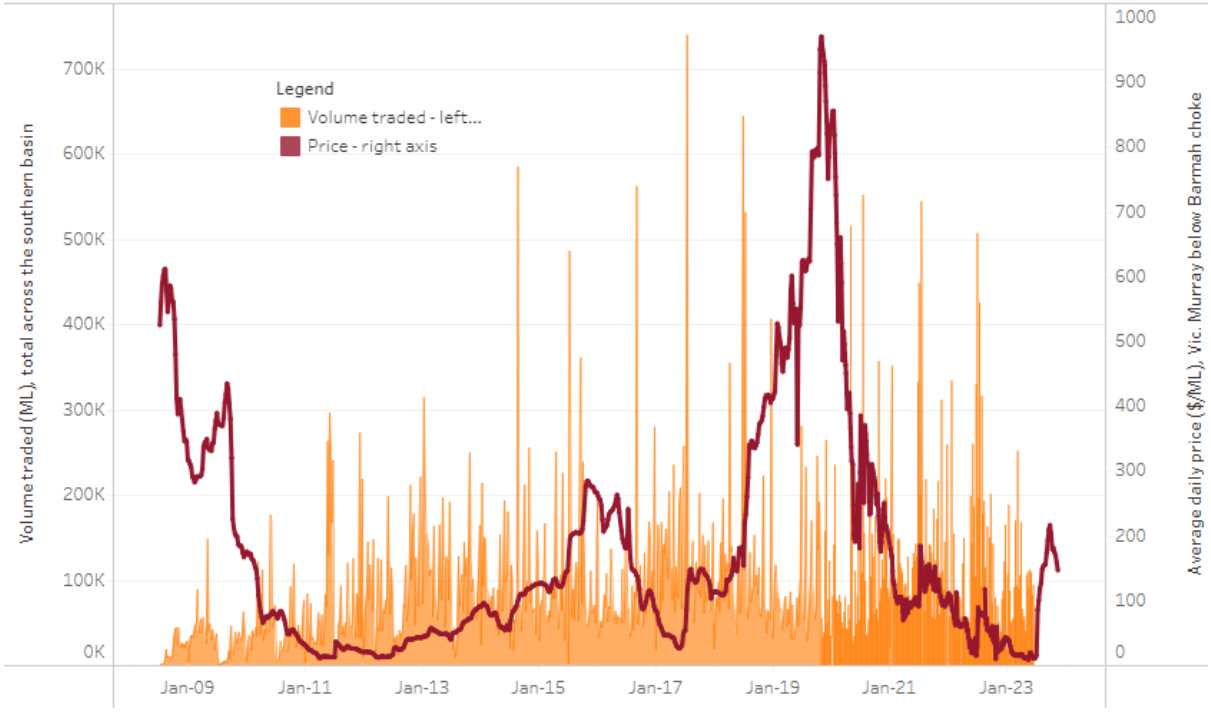


Water storage data is sourced from the Bureau of Meteorology.

Allocation prices in the Victorian Murray below the Barmah Choke decreased from $158 on 9 November 2023 to $146 on 16 November 2023. Prices are lower in the Goulburn-Broken due to the binding of the Goulburn intervalley trade limit.

Region	$/ML
NSW Murray Above	92
NSW Murrumbidgee	200
VIC Goulburn-Broken	132
VIC Murray Below	146

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 16 November 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/weekly-update-161123

3. Commodities

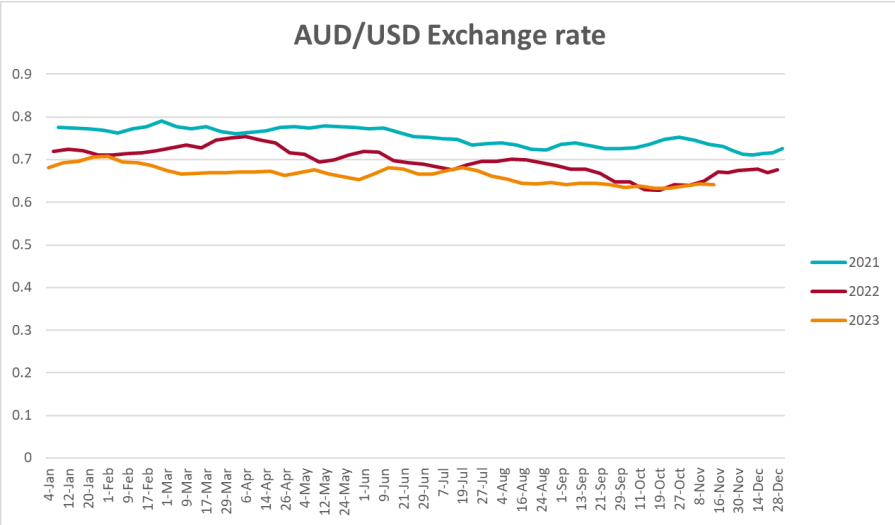
Indicator	Week ended	Unit	Latest Price	Previous Week	Weekly change	Price 12 months ago	Annual change
Selected world indicator prices							
AUD/USD Exchange rate	15-Nov	A$/US$	0.64	0.64	0%	0.67	-4%
Wheat – US no. 2 hard red winter wheat, fob Gulf	15-Nov	US$/t	287	289	-1%	415	-31%
Corn – US no. 2 yellow corn, fob Gulf	15-Nov	US$/t	213	212	0%	311	-31%
Canola – Rapeseed, Canada, fob Vancouver	15-Nov	US$/t	538	545	-1%	666	-19%
Cotton – Cotlook 'A' Index	15-Nov	USc/lb	89	90	-1%	101	-12%
Sugar – Intercontinental Exchange, nearby futures, no.11 contract	15-Nov	USc/lb	26.8	27.6	-3%	19	44%
Wool – Eastern Market Indicator	15-Nov	Ac/kg clean	1,151	1,128	2%	1,255	-8%
Wool – Western Market Indicator	15-Nov	Ac/kg clean	1,294	1,267	2%	1,447	-11%
Selected Australian grain export prices							
Milling Wheat – APW, Port Adelaide, SA	15-Nov	A$/t	448	456	-2%	567	-21%
Feed Wheat – ASW, Port Adelaide, SA	15-Nov	A$/t	428	436	-2%	510	-16%
Feed Barley – Port Adelaide, SA	15-Nov	A$/t	390	394	-1%	432	-10%
Canola – Kwinana, WA	15-Nov	A$/t	775	785	-1%	1,076	-28%
Grain Sorghum – Brisbane, QLD	15-Nov	A$/t	505	510	-1%	476	6%
Selected domestic livestock indicator prices							
Beef – Eastern Young Cattle Indicator	15-Nov	Ac/kg cwt	414	382	9%	1,022	-59%
Mutton – Mutton indicator (18–24 kg fat score 2–3), Vic	15-Nov	Ac/kg cwt	102	97	6%	513	-80%
Lamb – National Trade Lamb Indicator	15-Nov	Ac/kg cwt	453	472	-4%	795	-43%
Pig – Eastern Seaboard (60.1–75 kg), average of buyers & sellers	01-Nov	Ac/kg cwt	376	376	0%	376	0%
Goats – Eastern States (12.1–16 kg)	15-Nov	Ac/kg cwt	190	190	0%	485	-61%
Live cattle – Light steers to Indonesia	08-Nov	Ac/kg lwt	270	275	-2%	520	-48%

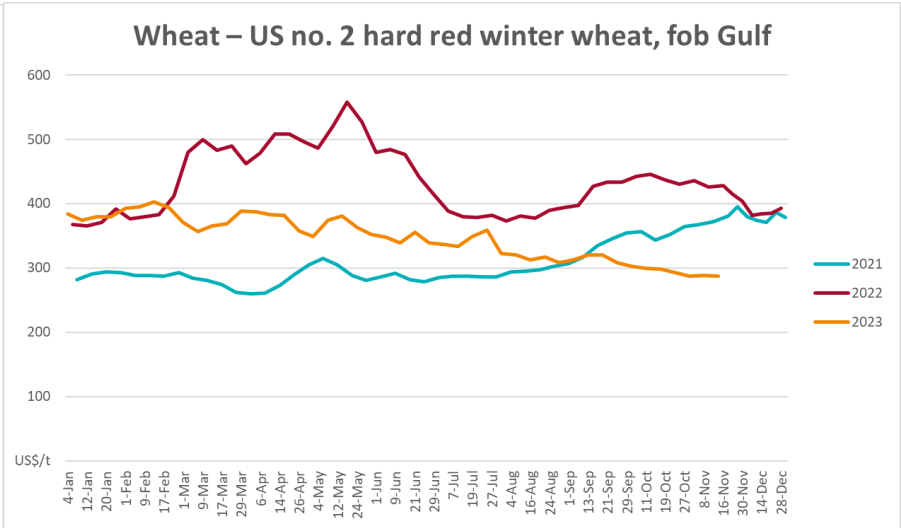
Global Dairy Trade (GDT) weighted average prices [a]

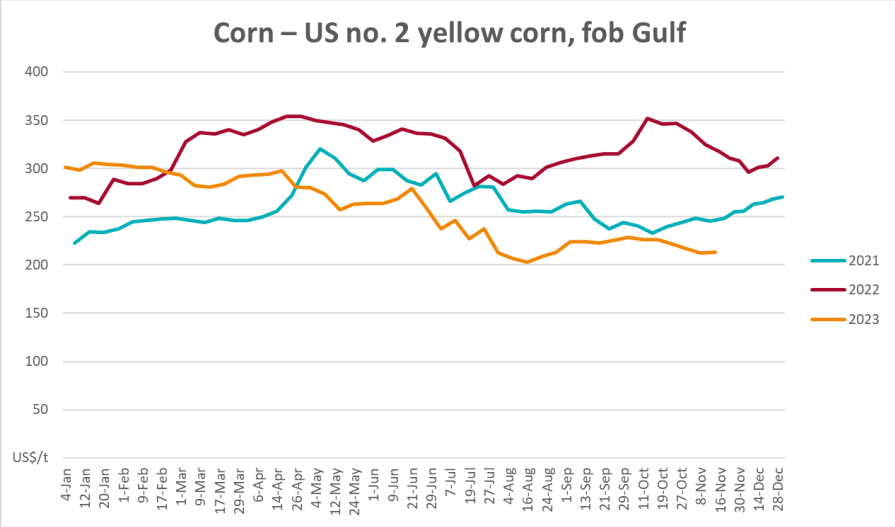
Dairy – Whole milk powder	08-Nov	US$/t	2,971	3,059	-3%	3,421	-13%
Dairy – Skim milk powder	08-Nov	US$/t	2,724	2,659	2%	3,250	-16%
Dairy – Cheddar cheese	08-Nov	US$/t	4,042	3,858	5%	4,769	-15%
Dairy – Anhydrous milk fat	08-Nov	US$/t	5,489	5,310	3%	5,661	-3%

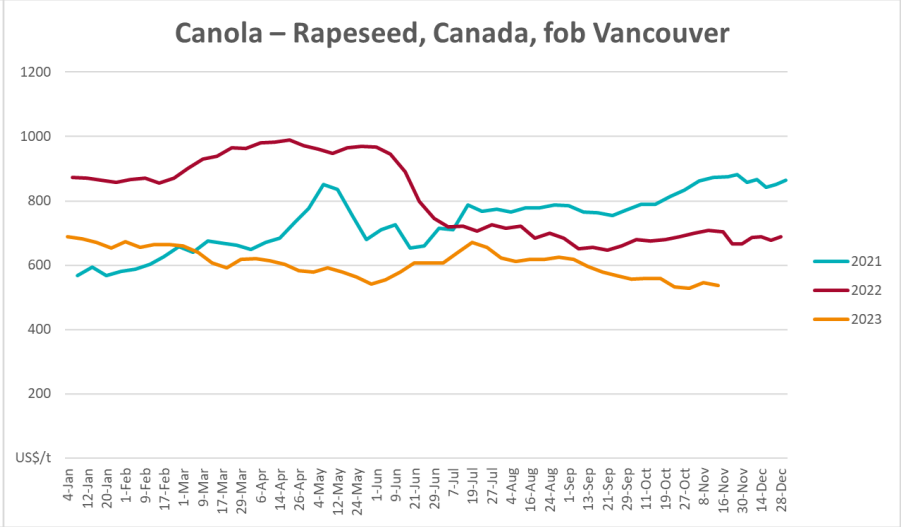
a Global Dairy Trade prices are updated twice monthly on the first and third Tuesday of each month.

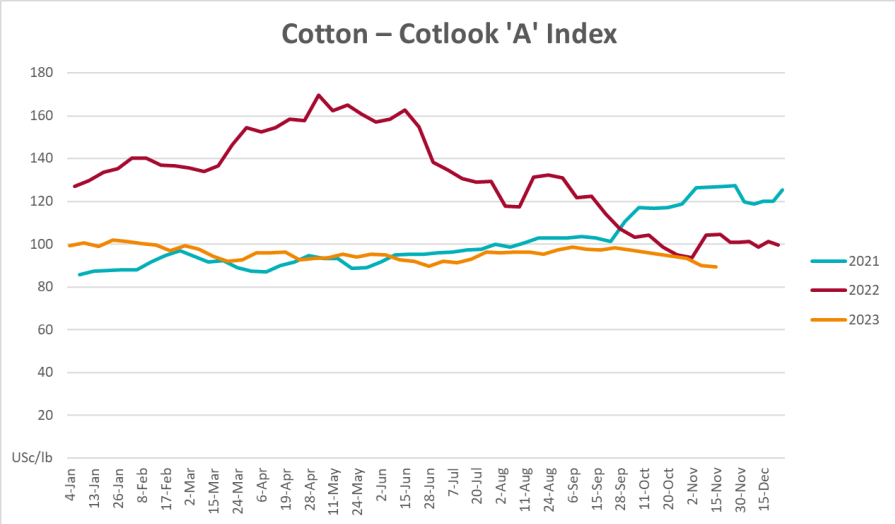
3.1. Selected world indicator prices










Cotton – Cotlook 'A' Index
180
160
140
120
100
80
60
40
20
USc/lb
4-Jan
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
6-Sep
15-Sep
28-Sep
11-Oct
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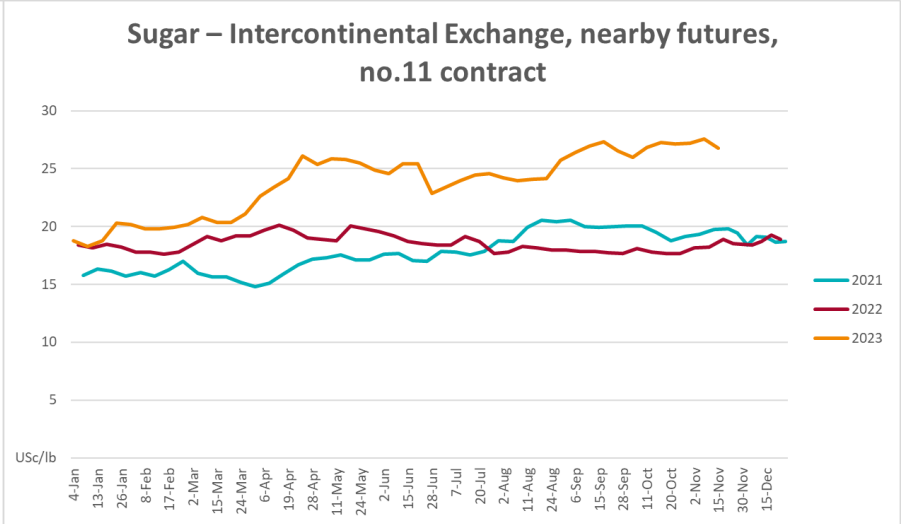
15-Nov
30-Nov
15-Dec
2021
2022
2023


Sugar – Intercontinental Exchange, nearby futures, no.11 contract
30
25
20
15
10
5
USc/lb
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
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30-Nov
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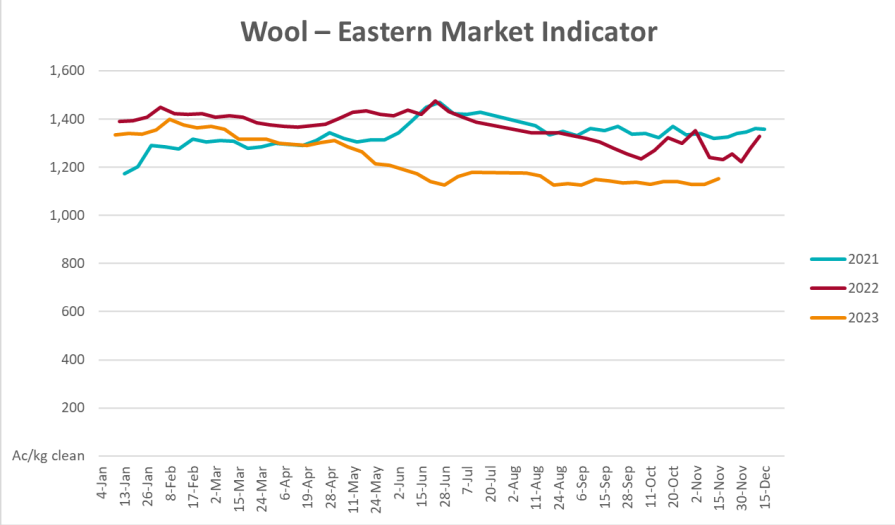
Wool – Eastern Market Indicator
1,600
1,400
1,200
1,000
800
600
400
200
Ac/kg clean
4-Jan
13-Jan
26-Jan
8-Feb
17-Feb
2-Mar
15-Mar
24-Mar
6-Apr
19-Apr
28-Apr
11-May
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2-Jun
15-Jun
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7-Jul
20-Jul
2-Aug
11-Aug
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30-Nov
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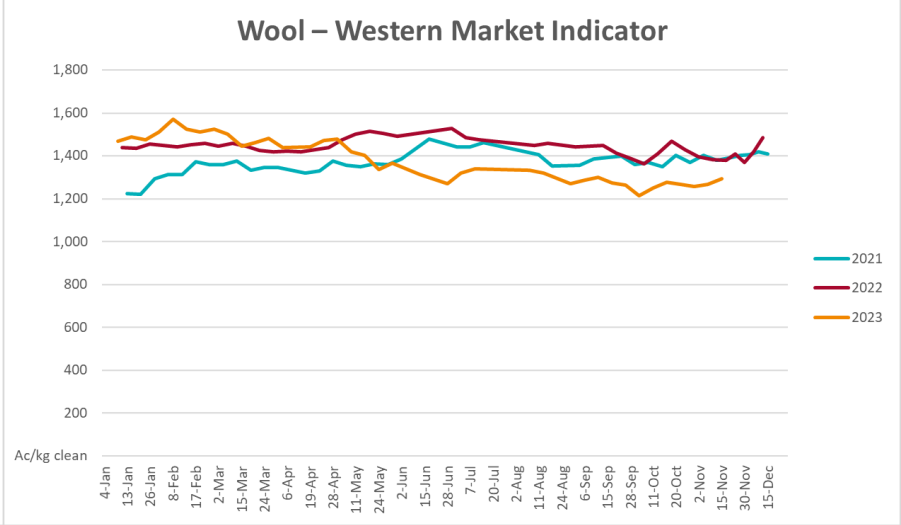
2023


Wool – Western Market Indicator
1,800
1,600
1,400
1,200
1,000
800
600
400
200
Ac/kg clean
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
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7-Jul
20-Jul
2-Aug
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24-Aug
6-Sep
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30-Nov
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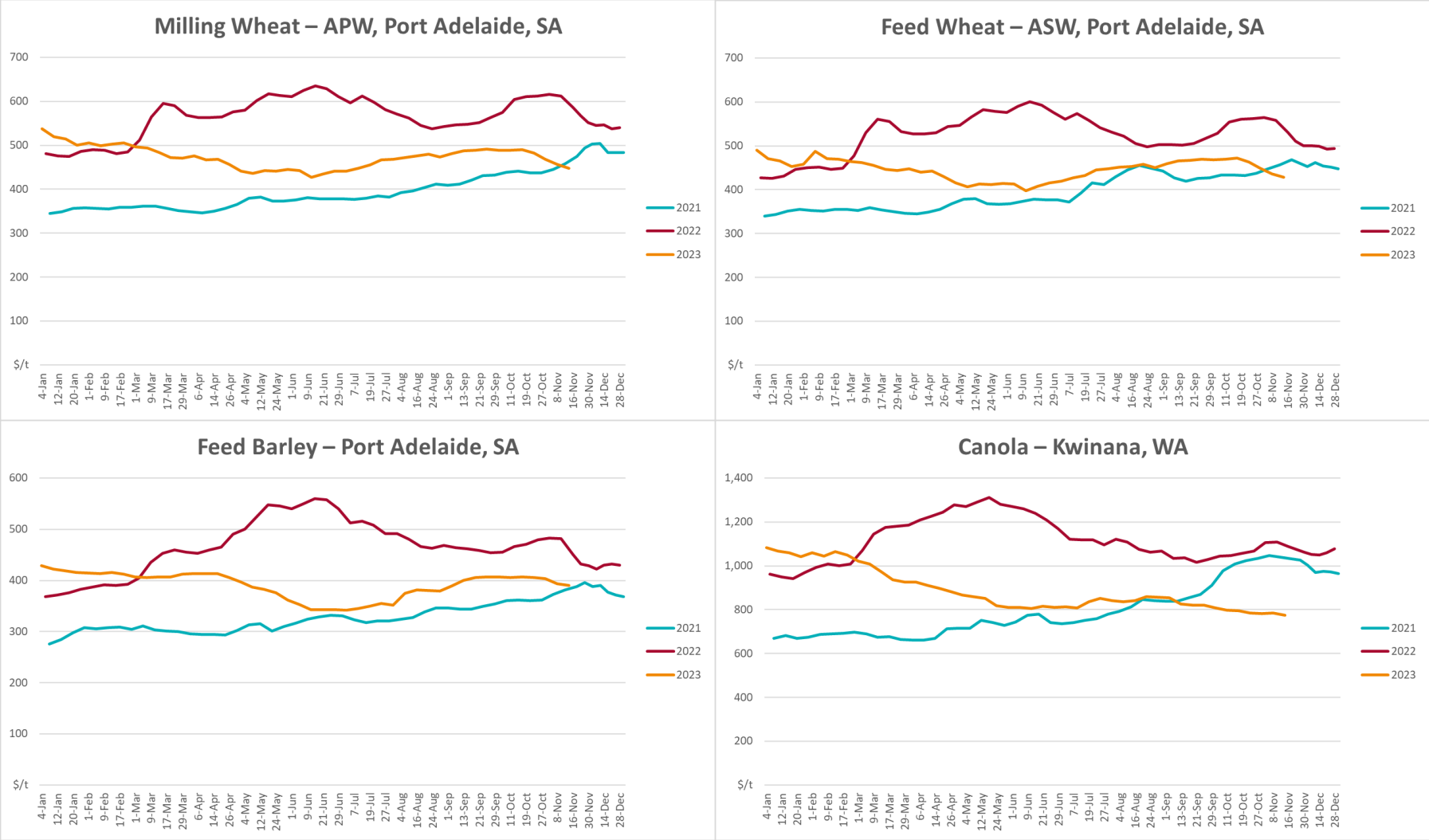
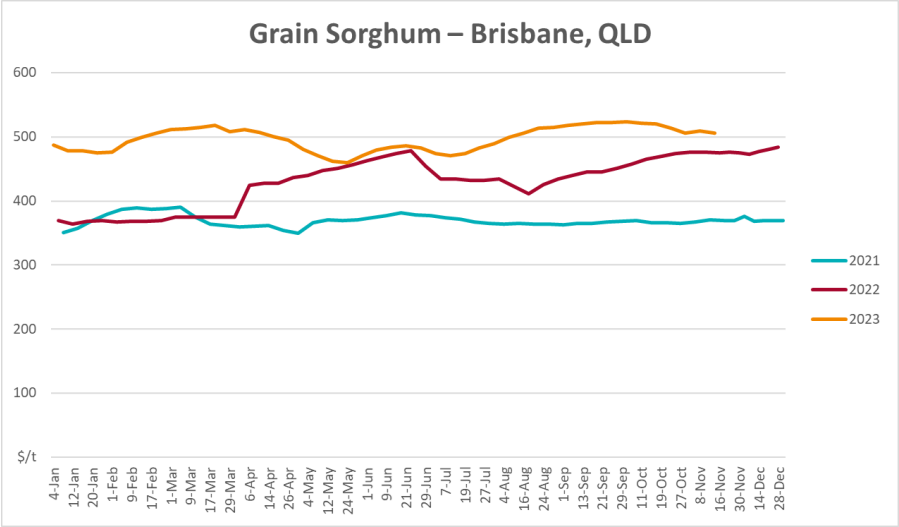
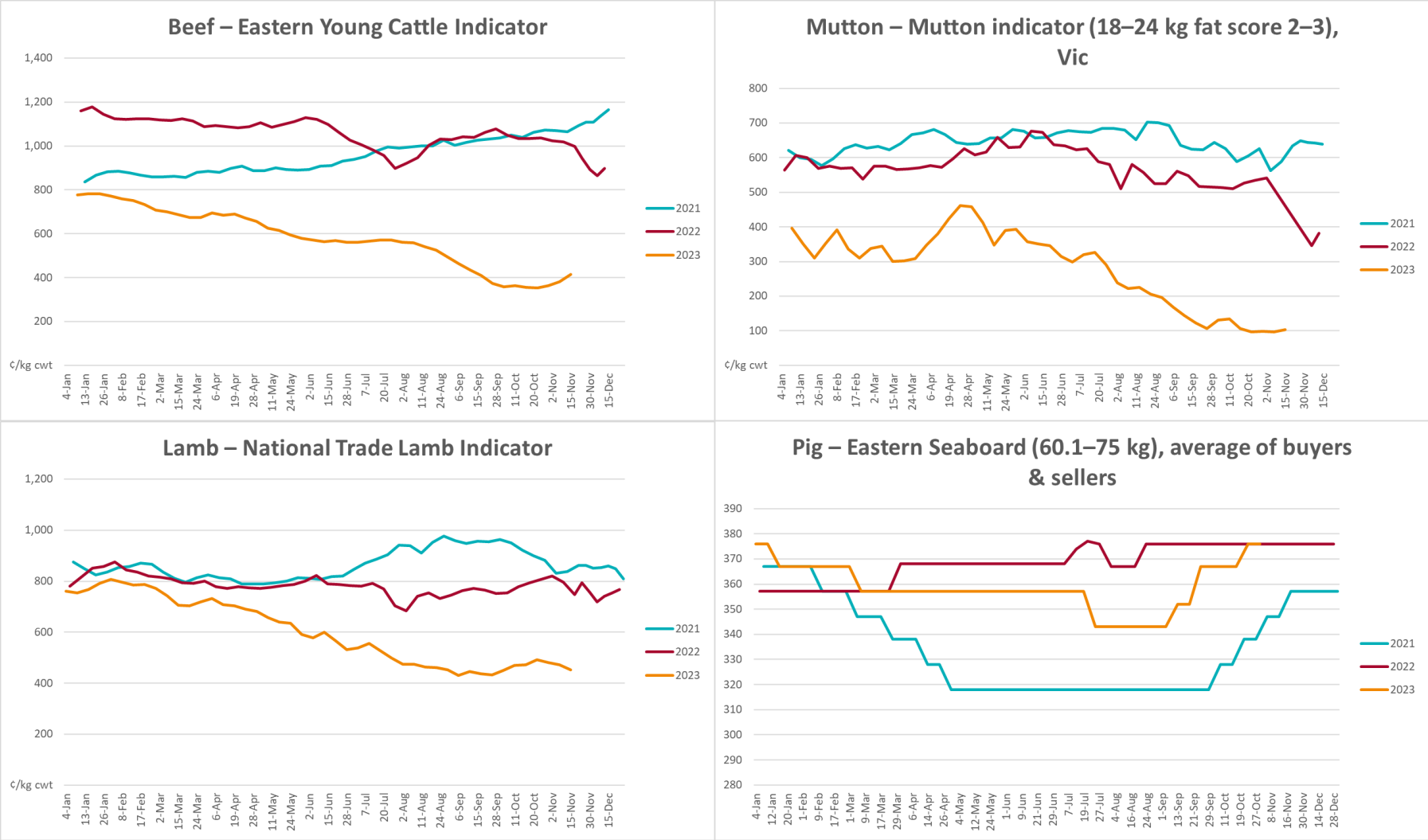
2021
2022
2023

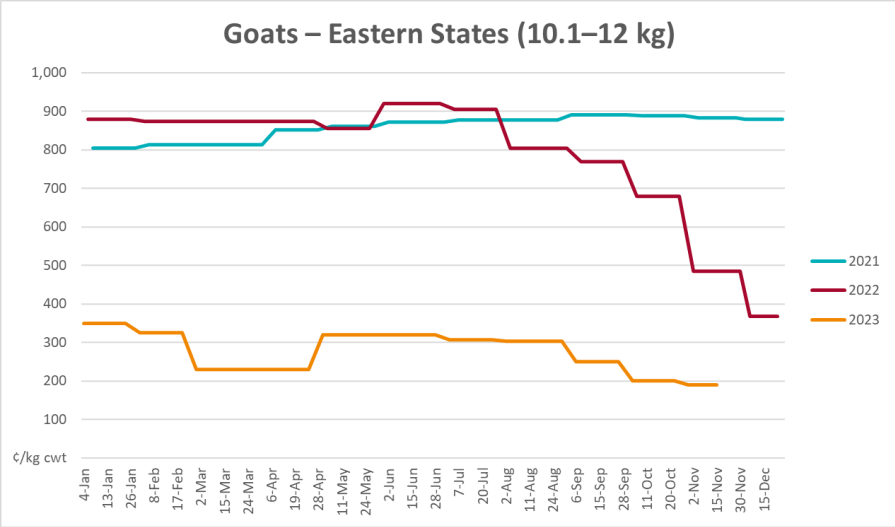
3.2. Selected domestic crop indicator prices




Grain Sorghum – Brisbane, QLD
600
500
400
300
200
100
$/t
4-Jan
12-Jan
20-Jan
1-Feb
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
13-Sep
21-Sep
29-Sep
11-Oct
19-Oct
27-Oct
8-Nov
16-Nov
30-Nov
14-Dec
28-Dec
2021
2022
2023

3.3. Selected domestic livestock indicator prices




Goats – Eastern States (10.1–12 kg)
1,000
900
800
700
600
500
400
300
200
100
¢/kg cwt
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
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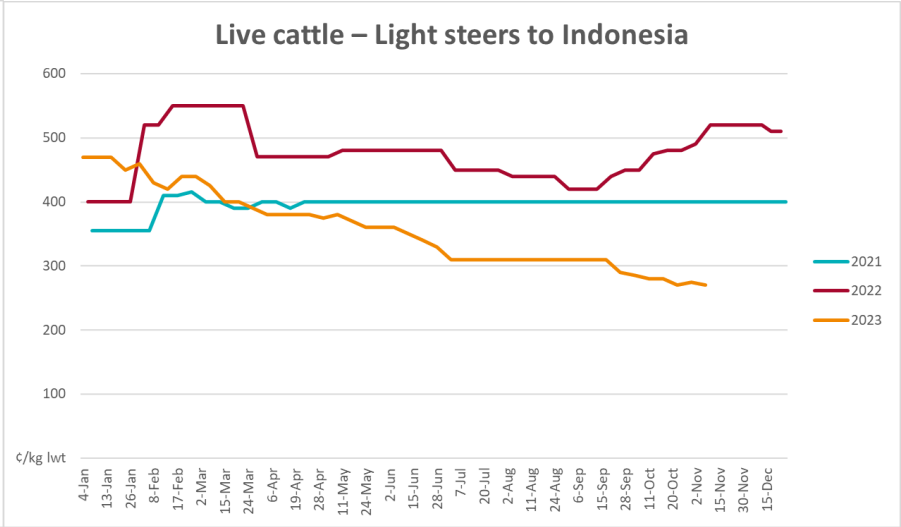
15-Nov
30-Nov
15-Dec
2021
2022
2023


Live cattle – Light steers to Indonesia
600
500
400
300
200
100
¢/kg lwt
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
6-Sep
15-Sep
28-Sep
11-Oct
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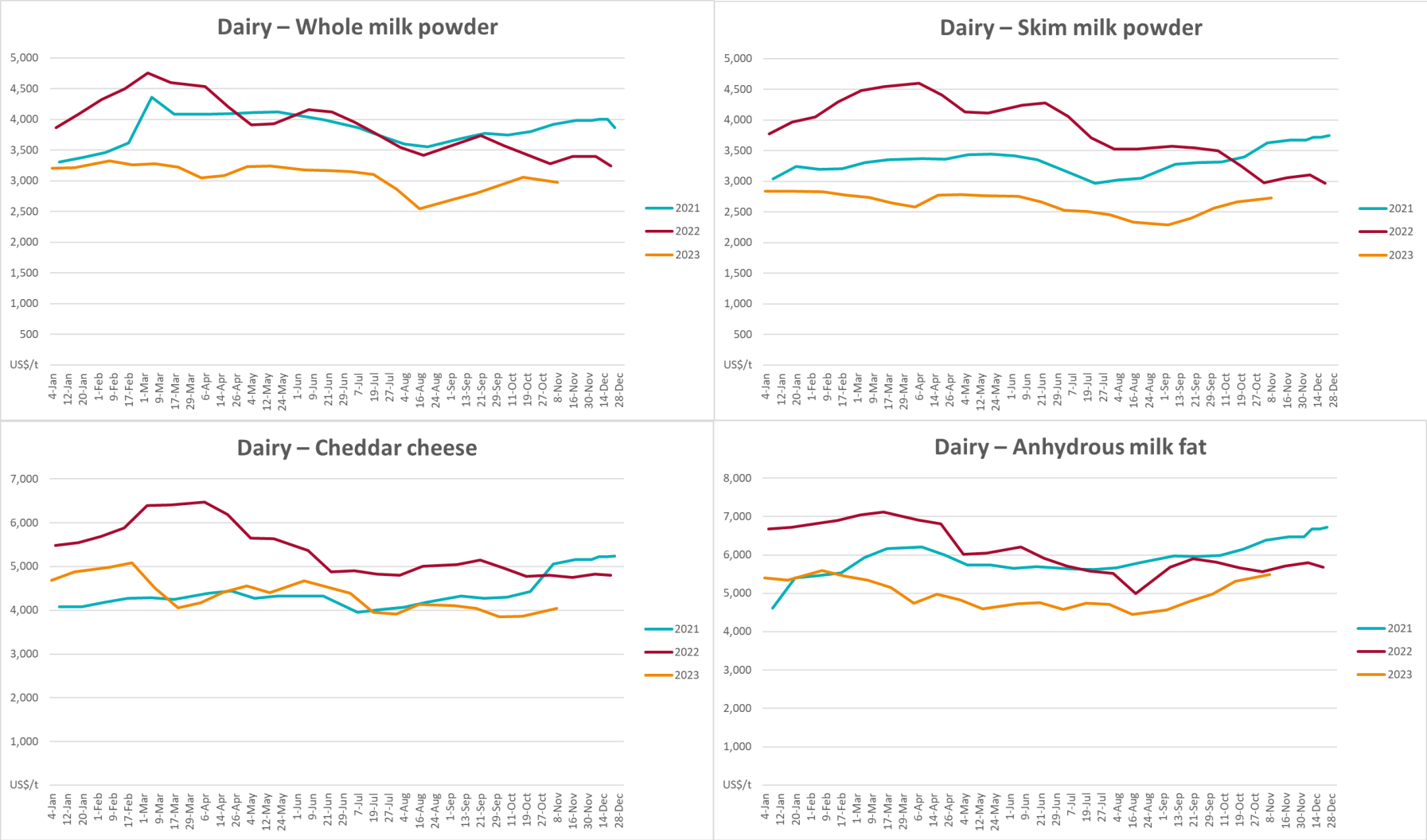
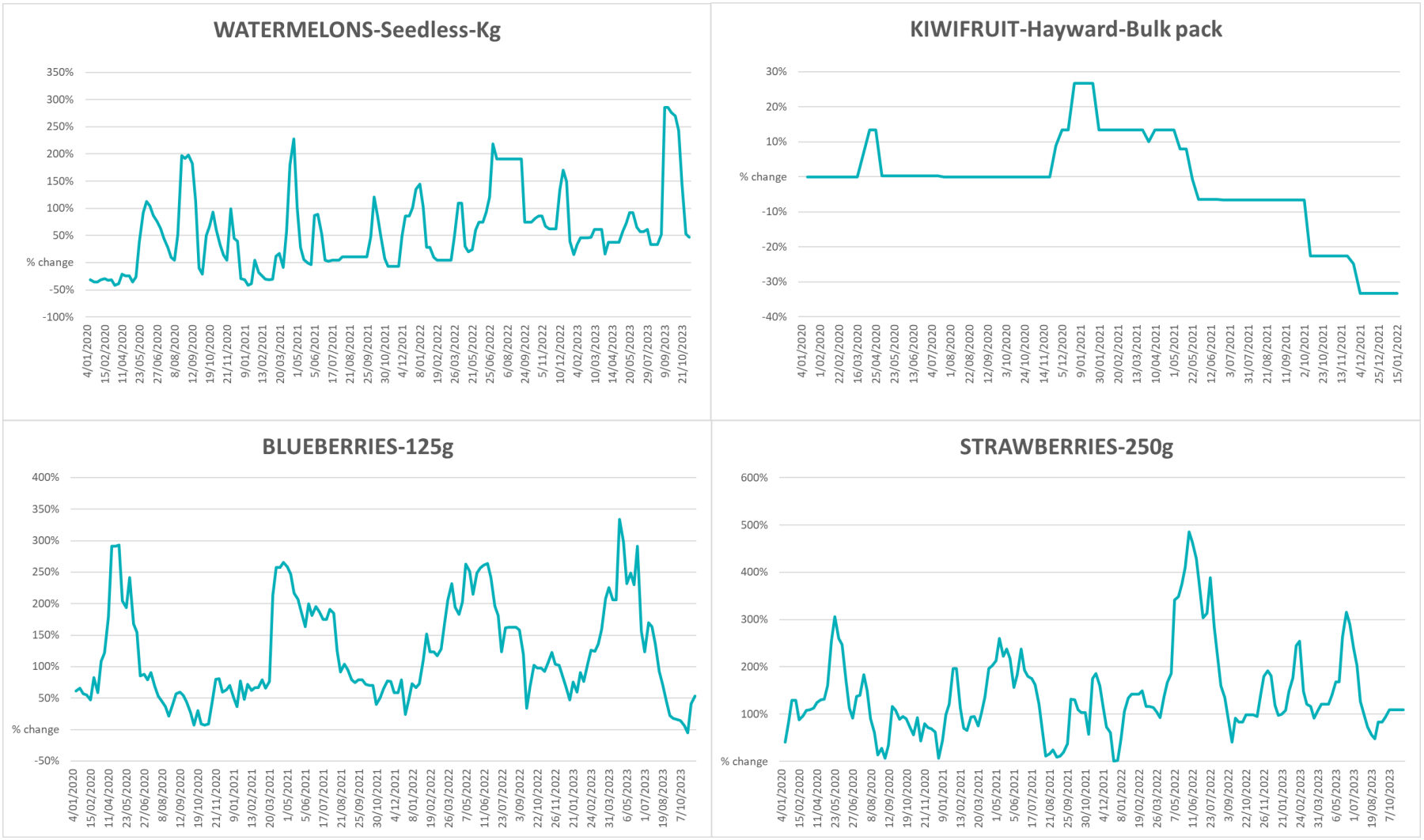
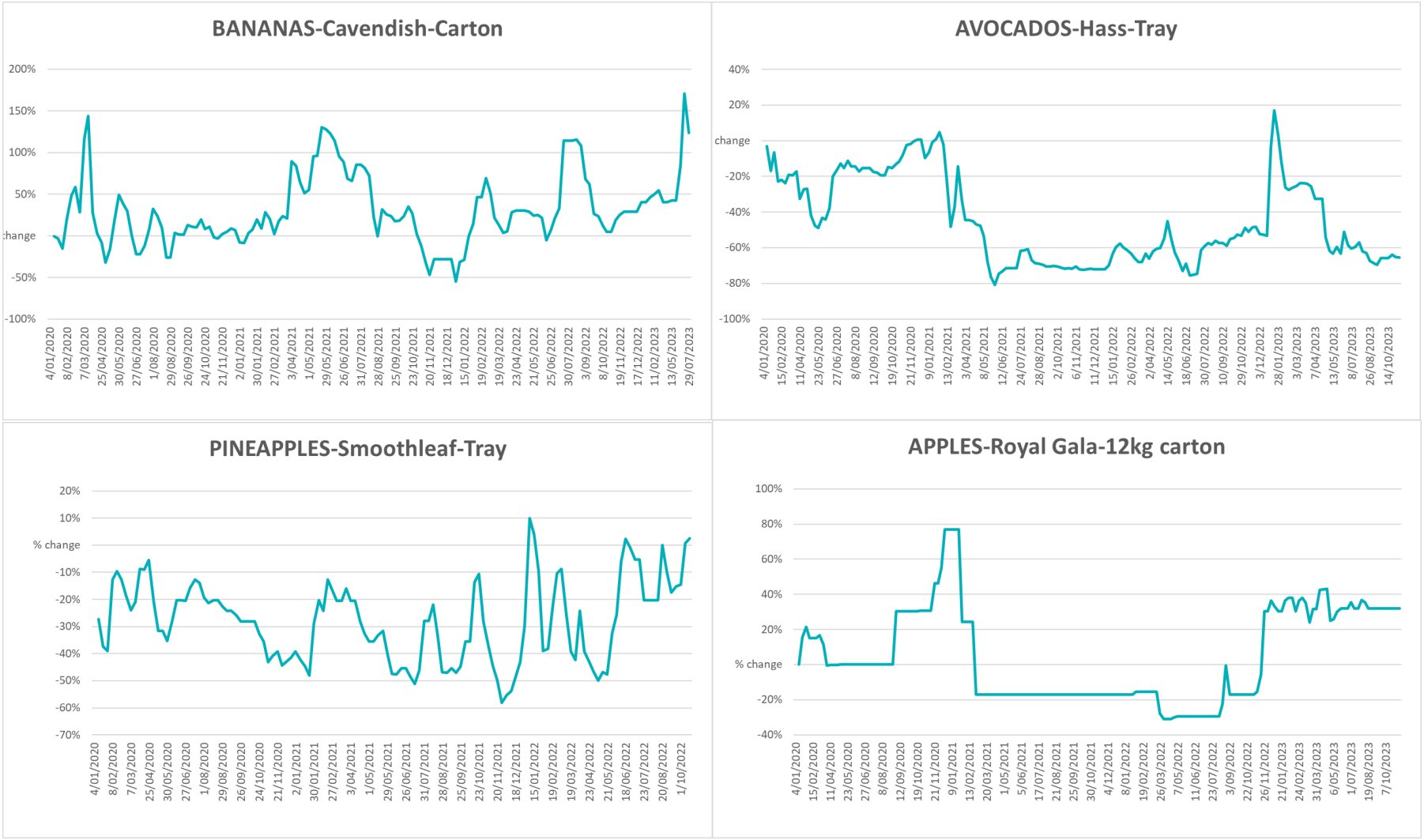
2-Nov
15-Nov
30-Nov
15-Dec
2021
2022
2023

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
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
3/04/2021
8/05/2021
12/06/2021
24/07/2021
28/08/2021
2/10/2021
6/11/2021
11/12/2021
15/01/2022
26/02/2022
2/04/2022
14/05/2022
18/06/2022
30/07/2022
10/09/2022
29/10/2022
3/12/2022
28/01/2023
3/03/2023
7/04/2023
13/05/2023
8/07/2023
26/08/2023
14/10/2023
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
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
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4/12/2021
8/01/2022
19/02/2022
26/03/2022
7/05/2022
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3/09/2022
22/10/2022
26/11/2022
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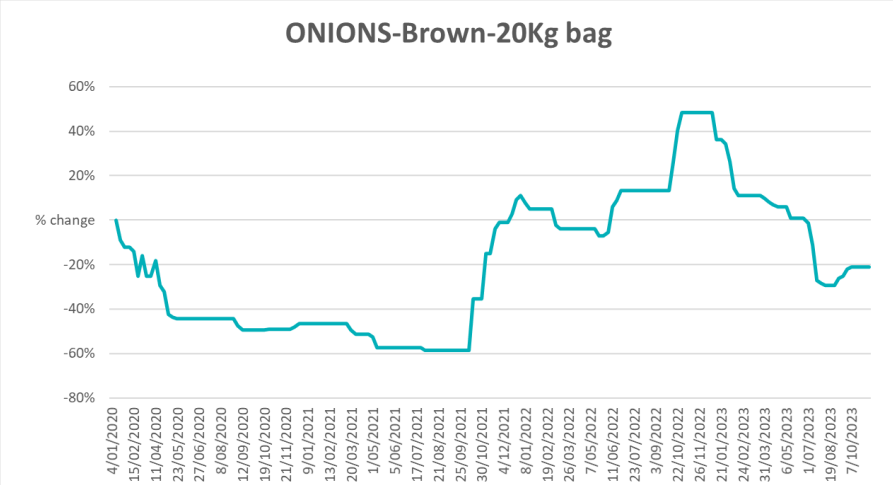
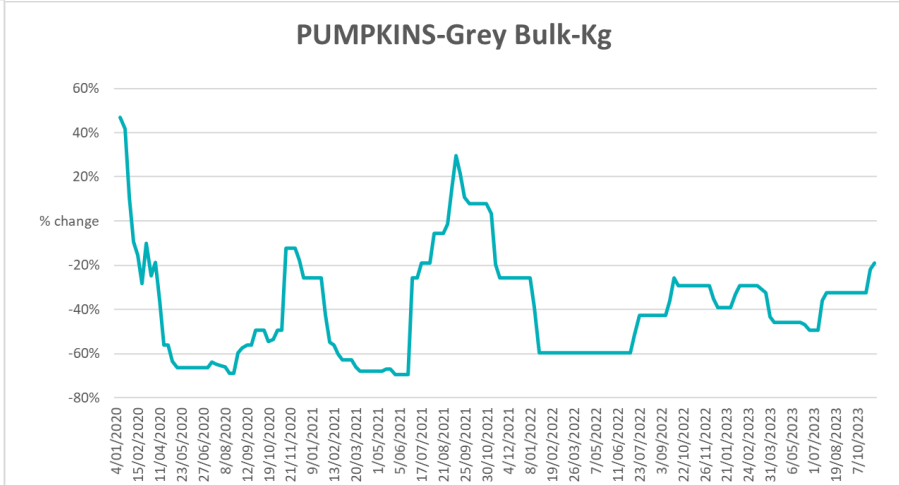
1/07/2023
19/08/2023
7/10/2023


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
7/10/2023


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
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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
26/11/2022
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31/03/2023
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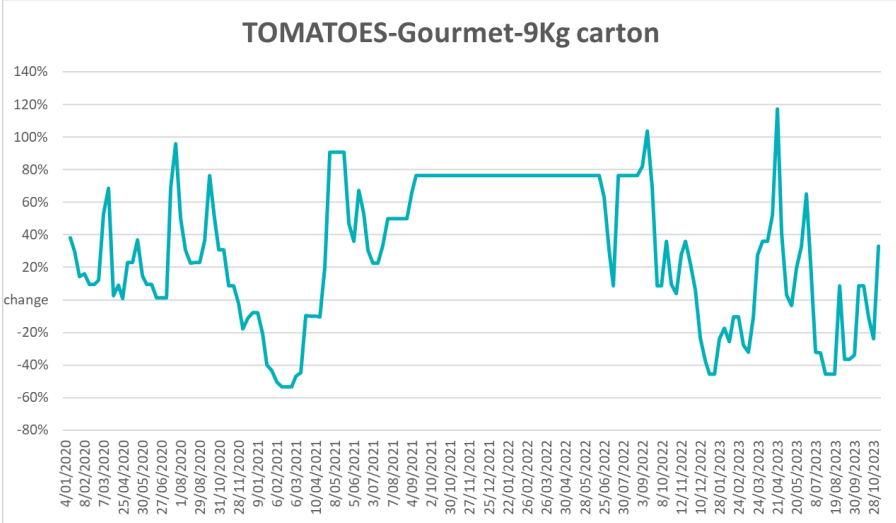
1/07/2023
19/08/2023
7/10/2023


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
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10/12/2022
28/01/2023
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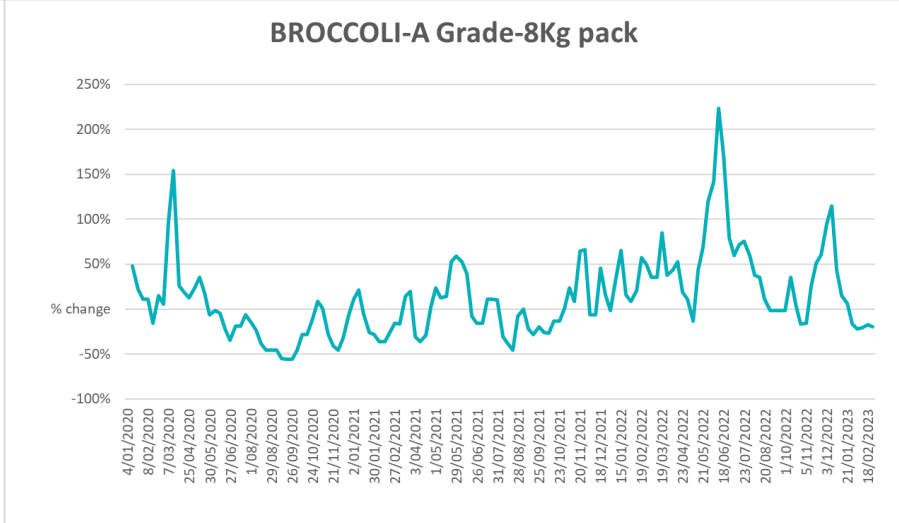
30/09/2023
28/10/2023


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
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27/02/2021
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20/11/2021
18/12/2021
15/01/2022
19/02/2022
19/03/2022
23/04/2022
21/05/2022
18/06/2022
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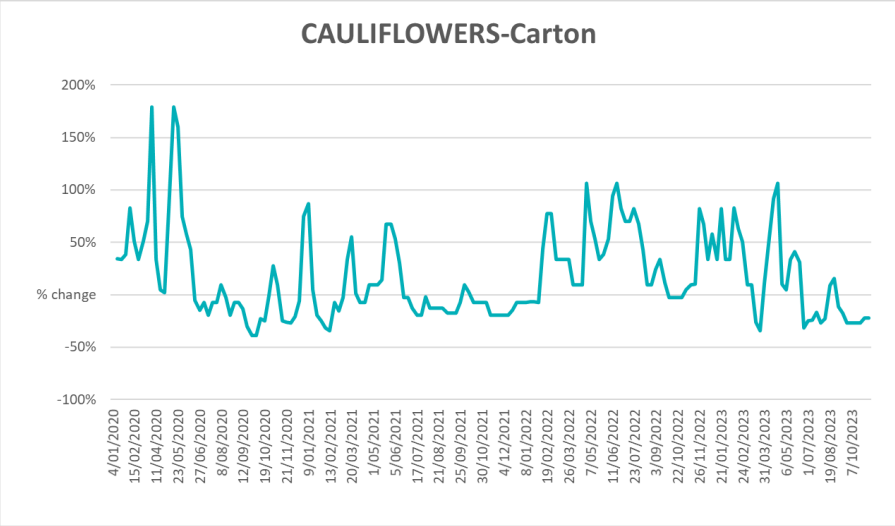
3/12/2022
21/01/2023
18/02/2023


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
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8/01/2022
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3/09/2022
22/10/2022
26/11/2022
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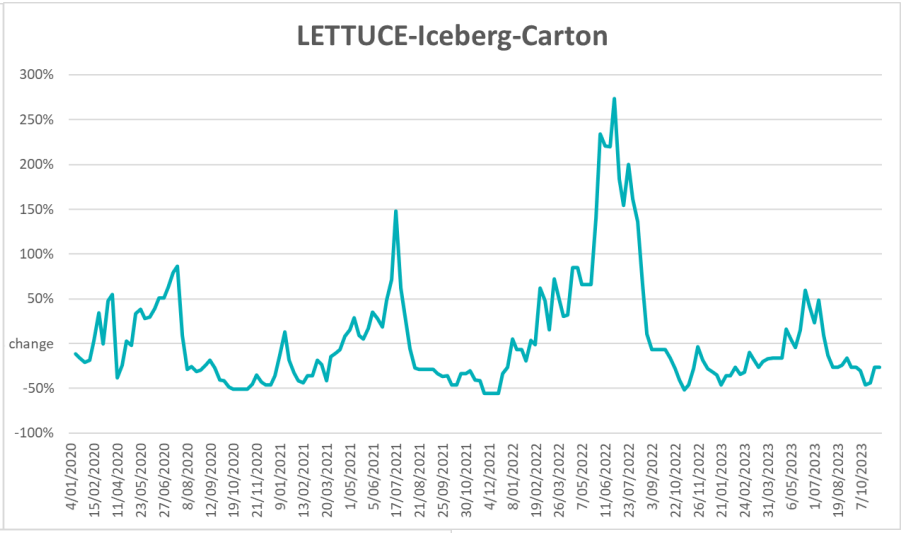
7/10/2023


LETTUCE-Iceberg-Carton
300%
250%
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
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19/02/2022
26/03/2022
7/05/2022
11/06/2022
23/07/2022
3/09/2022
22/10/2022
26/11/2022
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31/03/2023
6/05/2023
1/07/2023
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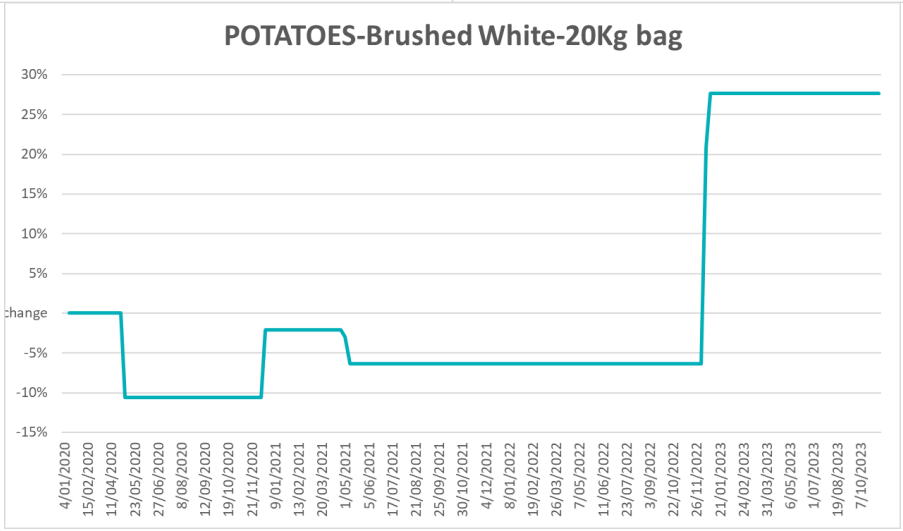
7/10/2023


POTATOES-Brushed White-20Kg bag
30%
25%
20%
15%
10%
5%
change
-5%
-10%
-15%
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
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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
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22/10/2022
26/11/2022
21/01/2023
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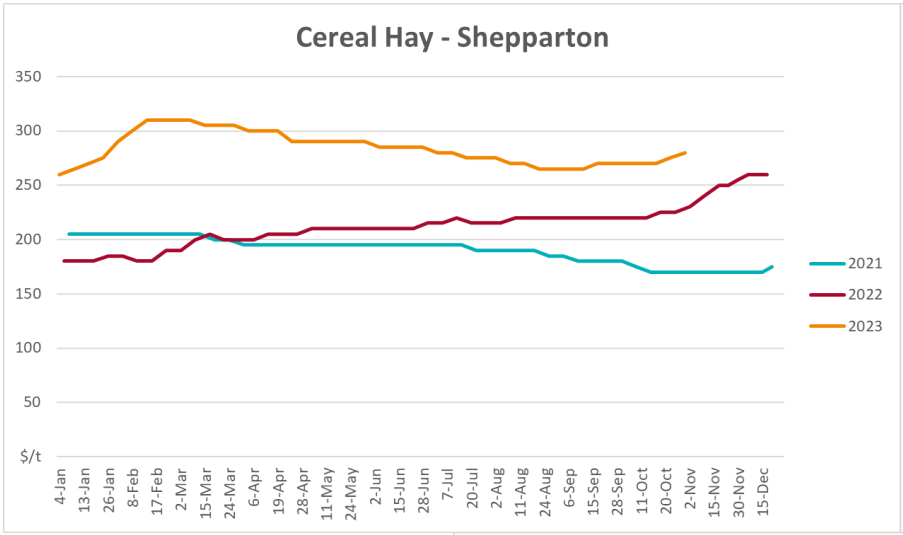
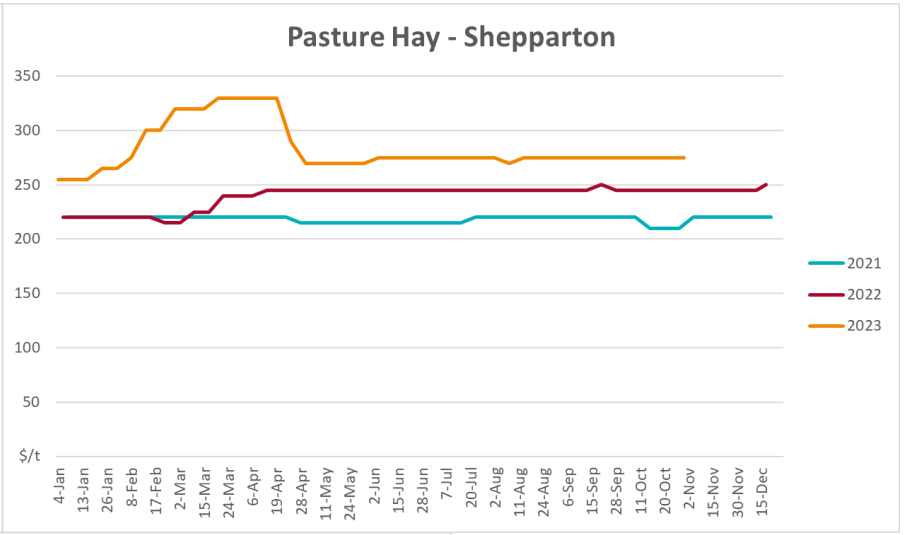
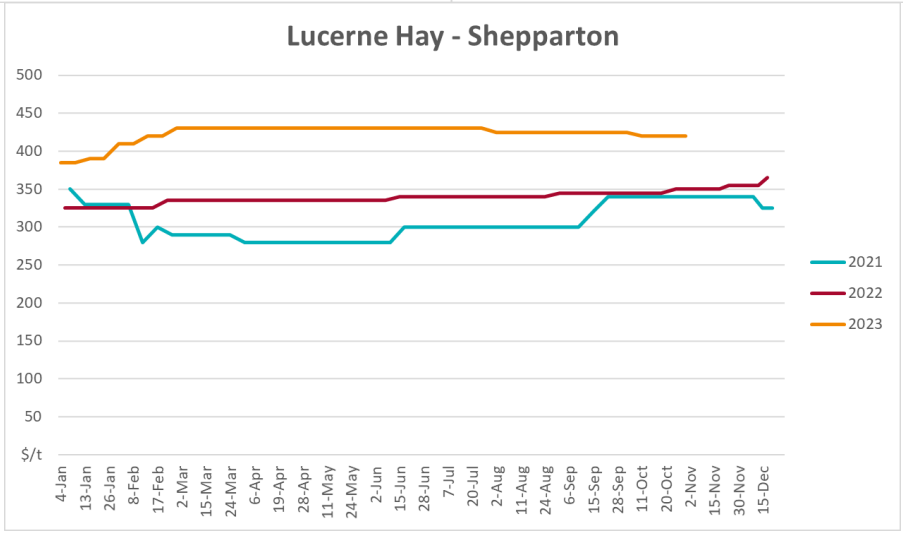
19/08/2023
7/10/2023

3.6 Selected domestic fodder indicator prices







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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