

2 March 2022

## AHDB milk forecasting forum

AHDB Market Intelligence https://ahdb.org.uk/dairy-markets



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#### Contents

- Key topics:
  - Herd size inseminations, calf numbers and calving patterns
  - Feed markets
  - Costs
  - Yields
- Milk forecast
- Compositional quality



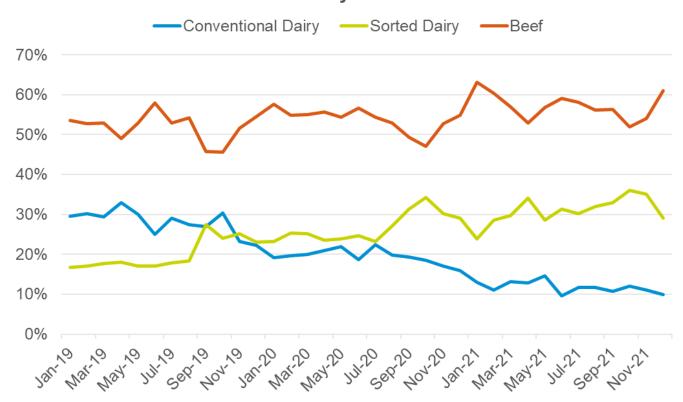
# Inseminations, calvings and herd size





### Semen sales continue to drive replacements

#### Share of dairy semen sales



Source: Genus

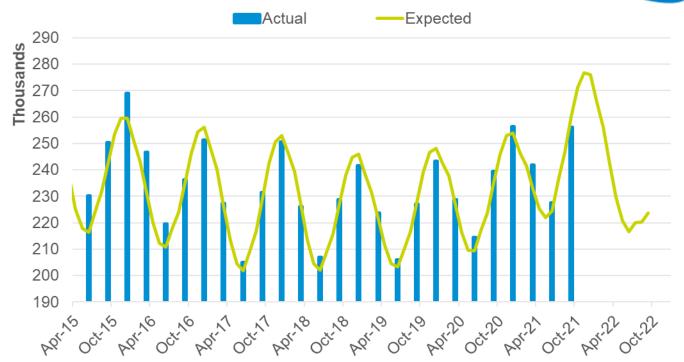
- Beef and sorted dairy semen continue to increase share of sales
- Seasonal lift in Beef share starts around December



### Expected dairy replacements





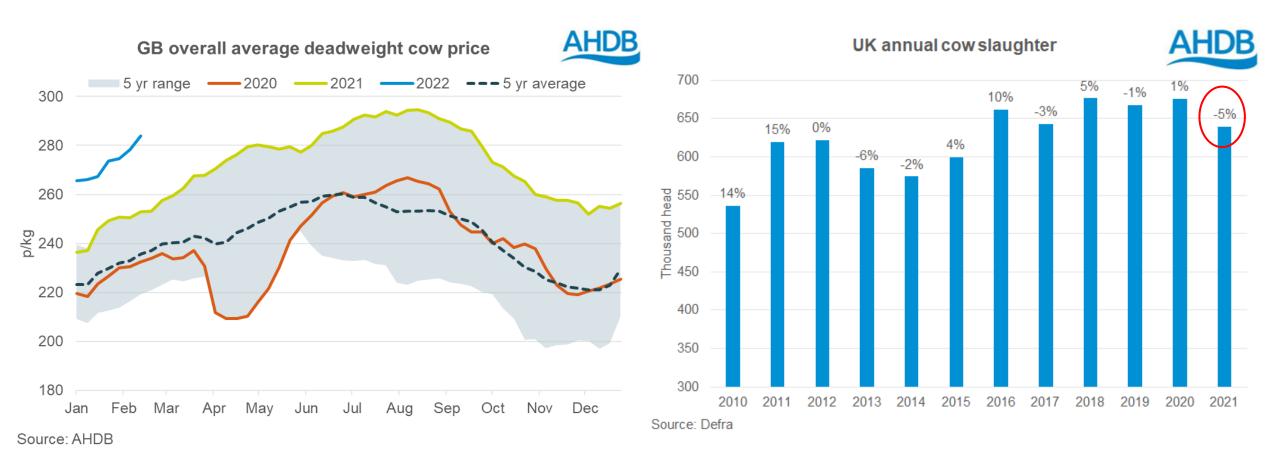


Source: AHDB, BCMS

- Estimates of the number of 0-6 month old females based on insemination data
- Underlying assumptions have been adjusted to bring projection in line with higher calvings from last year
- Actuals in Oct-21 were 17k up on last year and inline with the projection
- Insemination data suggests a further increase over the coming year
- Does not necessarily lead to an increase in the herd size just a reduction in the average age



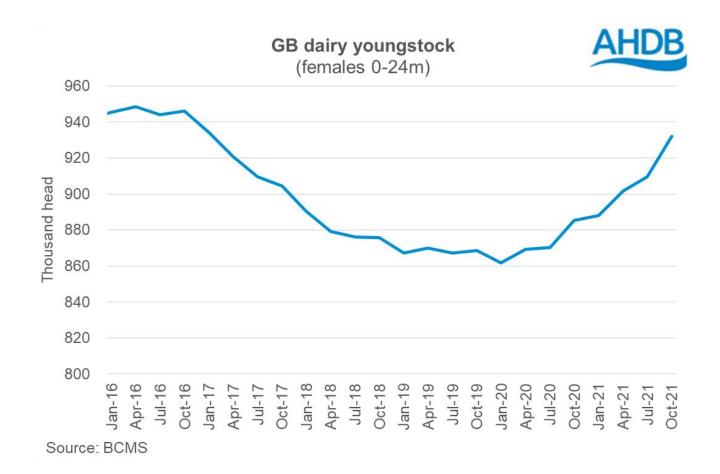
## Cow prices have been high but cow slaughter low



Note: data is for all cows so will include beef breeding cows as well as dairy cows



## Will maturing youngstock trigger a clearout?



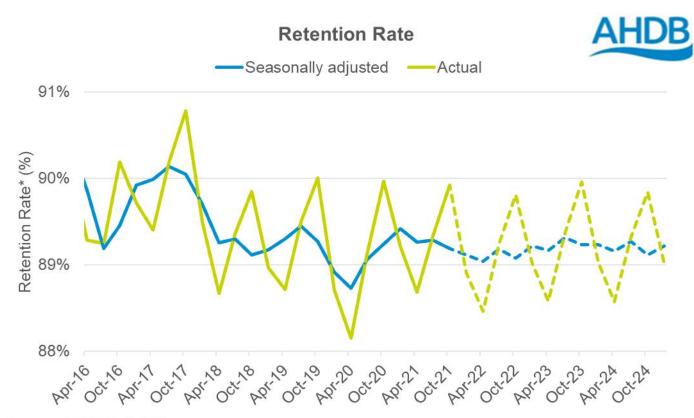
Quick calculation:

Rise in youngstock numbers

- + Rising feed costs
- + Record high cow prices
- = Clear out time?
- → Hasn't happened yet BUT:
- Declining youngstock 2+ years ago has limited new entrants to herd
- Rising youngstock from 2020 will start coming into the main herd this year







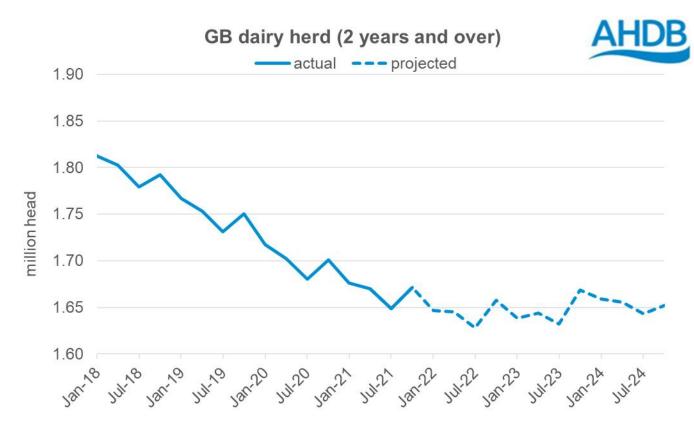
Source: BCMS, AHDB

- Retention of cows over 6 month period
- We seasonally adjust because Oct always high and Apr always low – allows us to see trends easier
- Retention rates rose through 2020 but eased off in 2021
- Retention rates are higher for younger animals
- Increase in proportion of youngstock in the herd naturally gives an increase in overall average retention rate

<sup>\*</sup>Seasonally adjusted 6-monthly retention rate for 2-8yrs







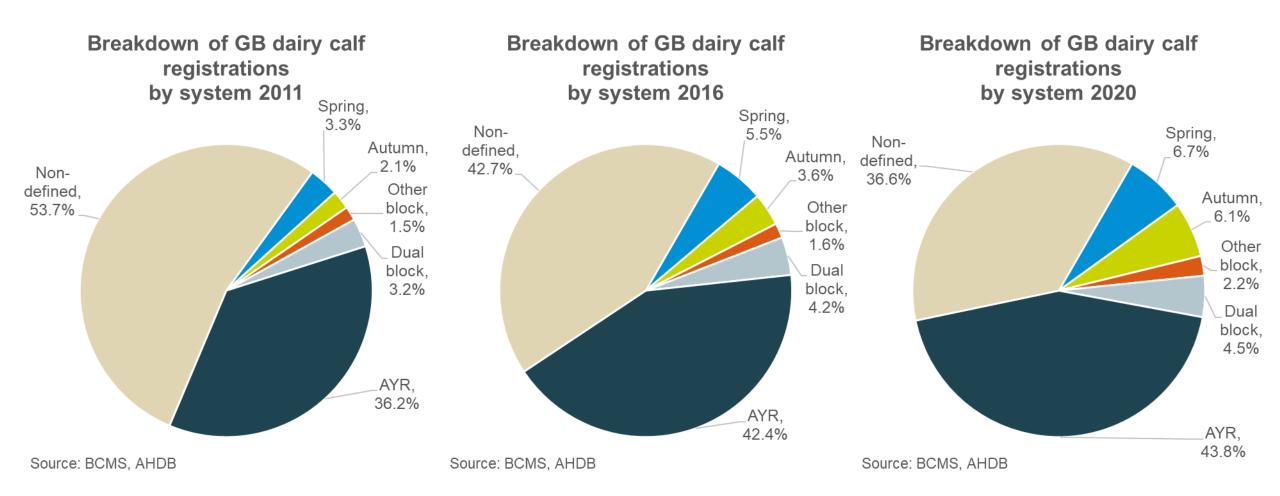
Source: BCMS, AHDB

Actuals currently available to October 2021

- AHDB projection of number of cows in the GB dairy herd
- Based on predicted youngstock numbers (from insemination data) and 3 year average retention rates
- Expectation that milking herd will be around 1.66m by Oct 2022, down 0.8% year-on-year
- Herd decline expected to flatten off due to higher youngstock numbers
- Adjusted following previous forum to include increased culling levels – but rising youngstock numbers keep pushing up the future herd

#### AHDB

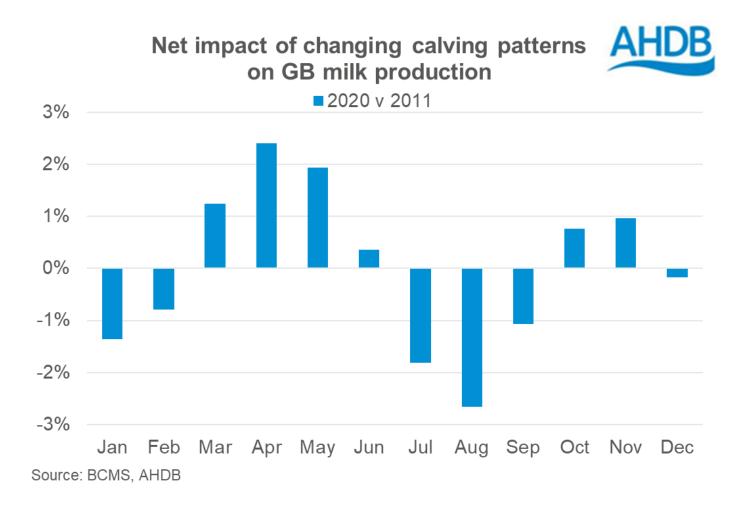
## Calf registrations by calving system



Increased focus on calving patterns (both block and AYR) over the last ten years



### Seasonal profile of milk production



- Block calving has increased seasonality
- Trough has moved from Oct/Nov to summer
- Autumn is now flatter, instead of low
- Peak is a little higher



02 March 2022

# Feed market update: where are prices heading?

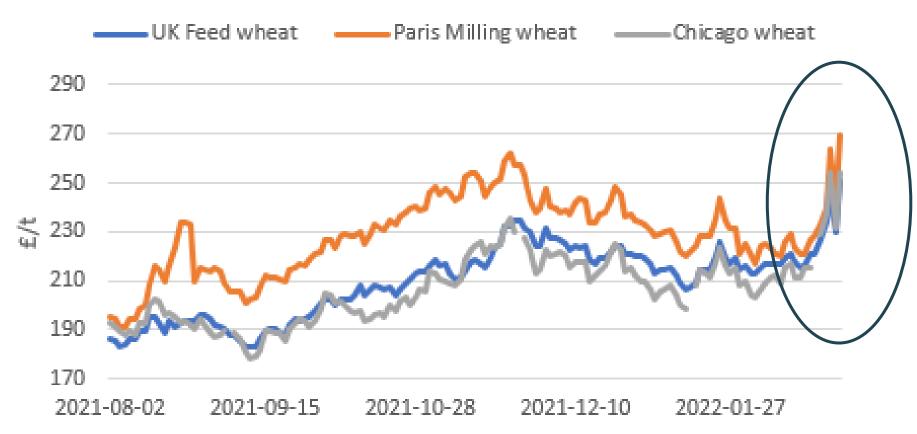
Vikki Campbell, Senior Market Specialists Manager





### Nearby contracts at record highs

#### Nearby contracts hitting record highs



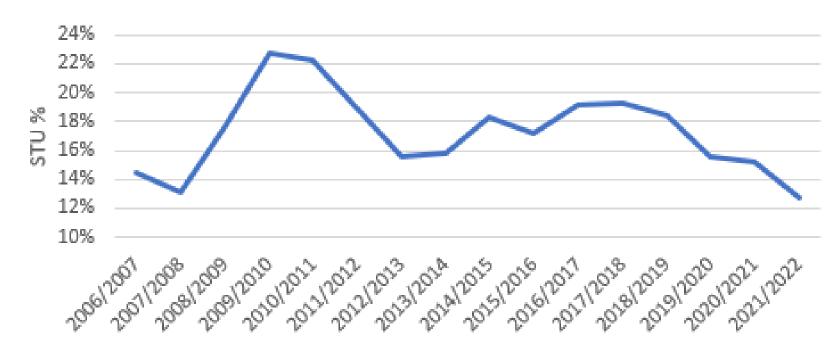
Source: CME, ICE, Euronext

- Nearby prices soaring to record highs on Russian invasion of Ukraine
- Exacerbating already tight global supply
- Volatility set to remain while conflict ensues



## A very tight global outlook for wheat

## Global STU of major exporters\* tightest for at least 16 seasons



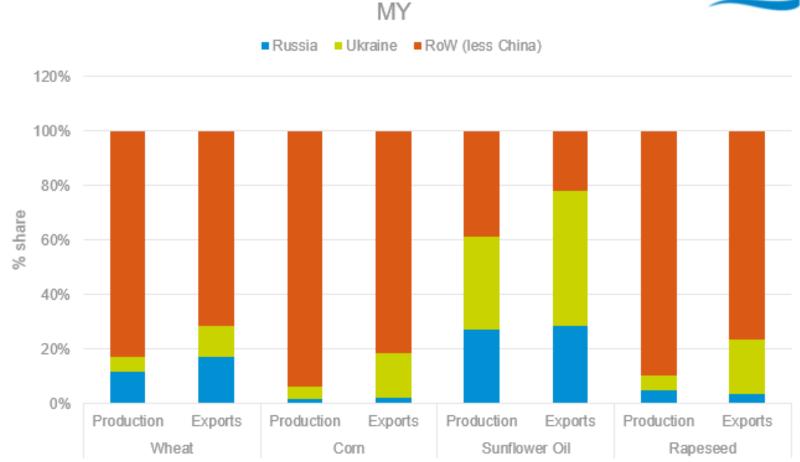
<sup>\*</sup> Argentina, Australia, Canada, EU, Kazakhstn, Russia, Ukraine, US Source: USDA

- Even prior to Russian invasion of Ukraine, STU ratio tightest for over 16 years
- Global exporters harvest weather hampered in 2021
- What is the impact of largely reducing the exports of two of the major exporters?









Source: USDA

- So far this season (Jul-Feb 21st), Ukraine has already exported 18.5Mt\* wheat (77% of USDA projection) and 19.8Mt\* corn (59% of **USDA** projection)
- Between Jul-Dec, Ukraine had exported 87% (2.7Mt)\*\* of USDA projected rapeseed exports
- Over the same period, 39% (2.6Mt)\*\* of the USDA projected Ukrainian sun oil exports had been shipped

<sup>\*</sup> UkrAgroConsult

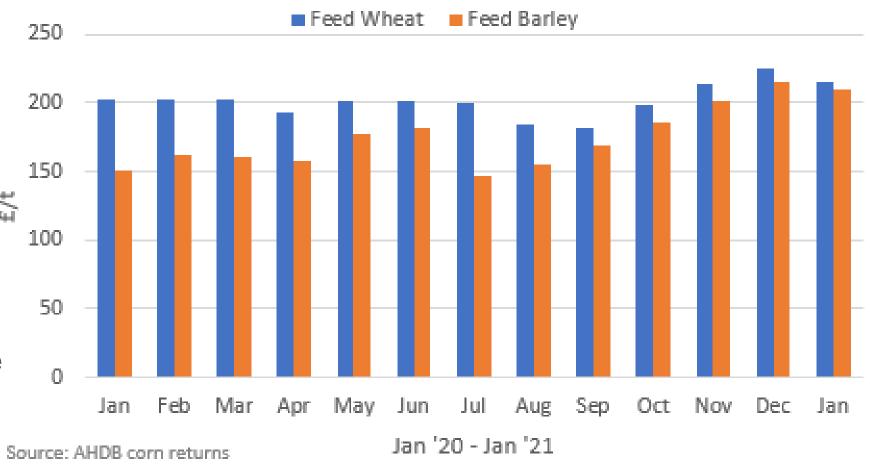
<sup>\*\*</sup> State Customs Committee of the Ukraine/I.H.S Markits



## Ex-farm price levels look set to remain supported

#### Ex-farm prices at record levels

- While easing back from December, exfarm prices still at record highs
- Reduced liquidity and increased demand supporting prices
- Milling wheat to specification become harder to source



## New crop fundamentals more bearish, but conflict throws much to the wind





- EU wheat area growing on the year
- While rain needed, crop condition still "very good"



 Black Sea area remains a large question mark.
 Winter wheat areas are up, but capacity stopped/restricted on labour/inputs for spring fieldwork



- US wheat area up on year
- Some key growing states have dryness concerns



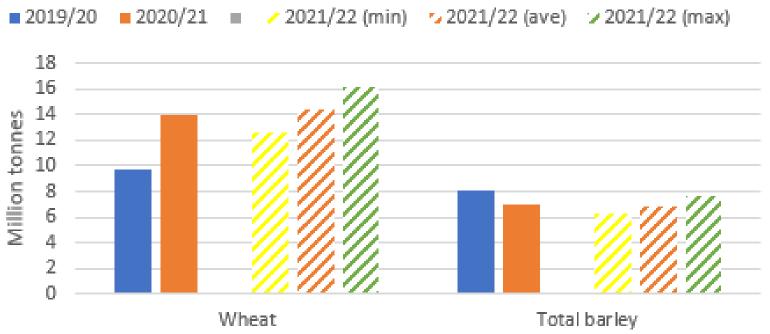
- First look at area 26
  April
- Strong potential for improvement on 20/21 drought riddled crop



## For UK, production could tick up for wheat if average yields achieved

Slight increase in wheat area, but barley area AHDB down a touch





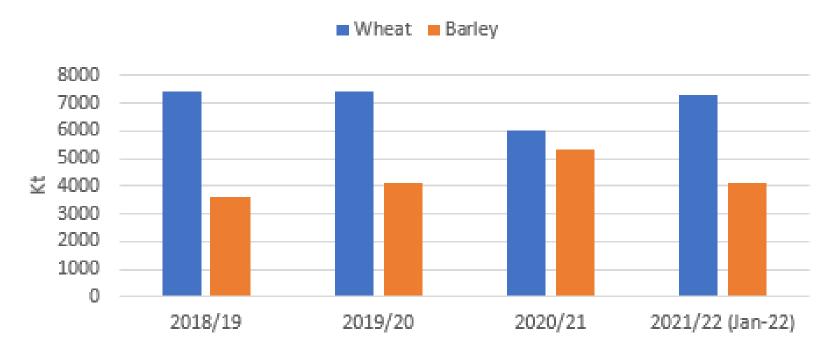
- Source: Defra, AHDB. Andersons
- Production estimates based on min/max/average yields from past 5 seasons

- Rising input costs have potential to impact yields
- Potential for reduction in application rates, or late delivery missing scheduled spraying campaigns

## Animal feed wheat use rebounds, while opening stocks tightest this century

- However, opening stocks for wheat tightest this century
- Competing demand from bioethanol. Second plant coming on line Q1 2022
- Further support given to prices

Wheat use for animal feed to recover this year, while barley back to 19/20 levels

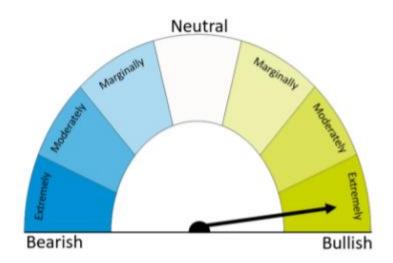


Source: AHDB



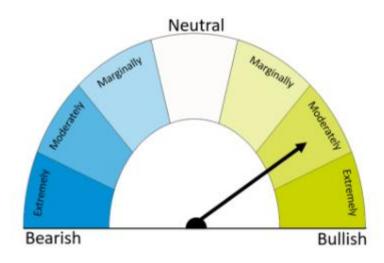
#### Where now?

#### Wheat



- Two major exporters disrupted is surging prices in a tight supply arena
- LT ?? Much depends on how long the Ukr conflict lasts, with production risks to other players

#### Barley



- Barley discount diminishing as wheat becomes more expensive to source
- However, will follow wheat prices. Global tightness means there is not much slack for barley to pick up demand

NB – Price indicators based on current market dynamics.



#### Oilseeds – market drivers

Rapeseed - 2021/22 tight S&D for EU





Russian invasion of Ukraine causing sun oil prices to soar



Record South American production need to satisfy demand, but La Nina impacting

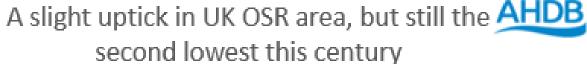


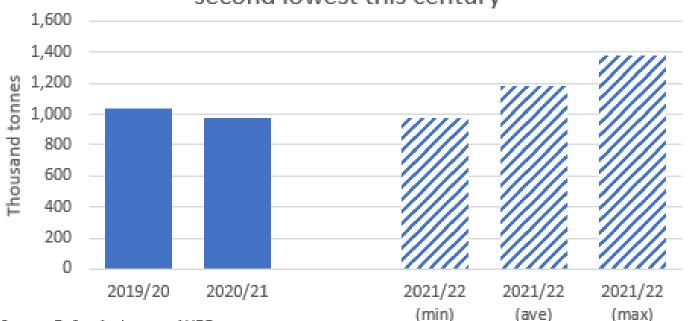
Export restrictions causing palm oil prices to jump





## Rapeseed outlook – some easing but balance still tight





Source: Defra, Andersons, AHDB

Production estimates using min, ave, max yields of previous 5 seasons)

Tight supply & demand picture

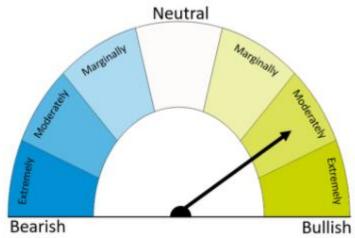
Imports up 134% on the year, 45% Ukrainian sourced

Crush margins and volumes may ease but to remain strong



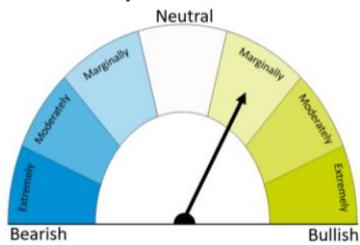
#### Where now?

#### Rapeseed



- Global supply remains tight
- While most of Ukrainian rapeseed already exported, sentiment keeps entire complex elevated
- Canadian plantings and Russian/Ukrainian conflict setting the tone long term

#### Soyabeans



- Could see further support from Black Sea conflict news
- However, more bearish tone worldwide with Brazil harvest ahead of pace and US area forecast up
- This could limit upwards price potential

NB – Price indicator based on current market dynamics.

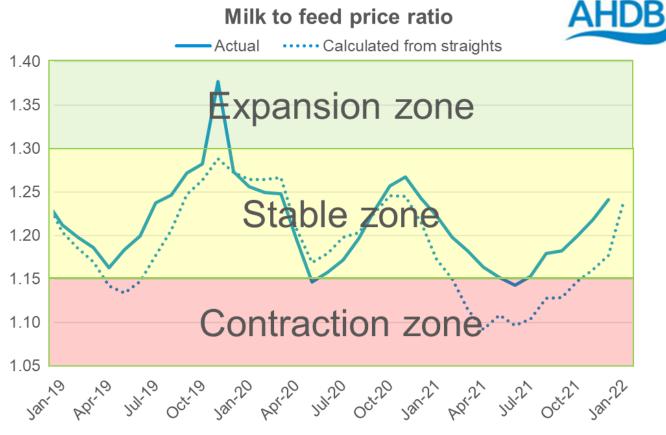


## Costs & Yields





## Milk to (concentrate) feed price ratio

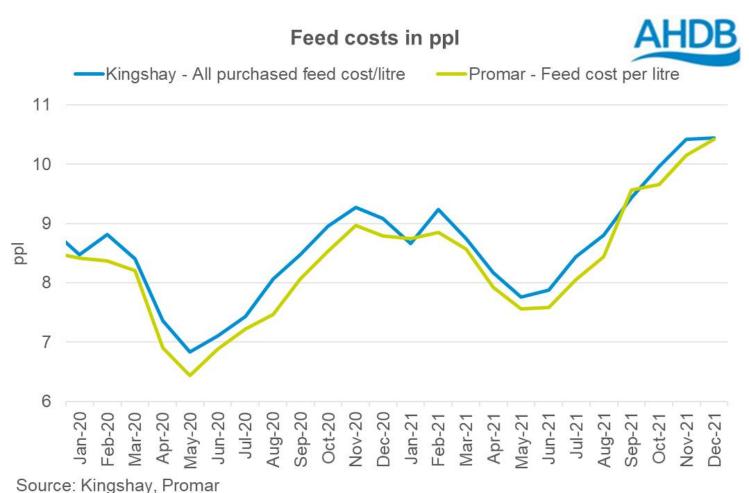


Source: Actual - Kingshay, Promar, Defra, AHDB, Daera. Calculated - AHDB, Defra

- Actual concentrate costs lower than the calculation from straights
- The efforts to keep cost increases to a minimum has kept our Milk to Feed Price Ratio in the stable zone.
- If only concentrate costs considered, we avoided a significant period inside the contraction zone.
- Recent increases in milk prices have helped lift us away from contraction zone
- But, concentrate feed prices are only one element of rising costs – does not take into consideration fuel, fertilise or increased cost of forage



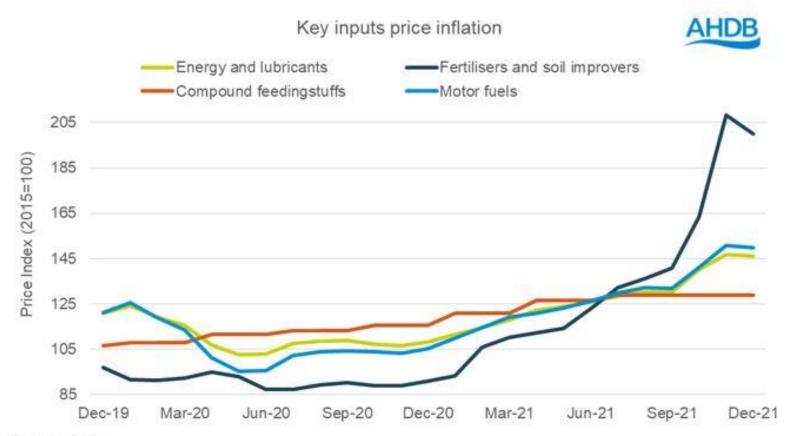
## Total feed cost per litre is highest since 2013



- Still only purchased feed costs
- Cost of producing own forage not be accounted for.



#### Other costs



- Feed costs not the only consideration
- Energy, labour, fertilisers etc all costing more
- Latest Agricultural Price Index data shows slight dip in December but we expect this is a blip in a rising trend

Source: Defra



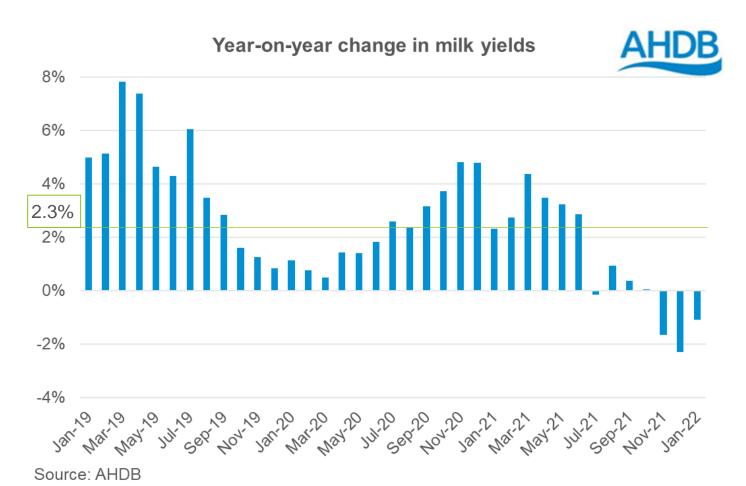
## Fertiliser prices



- N based fertilisers more than 2.5x more expensive than a year earlier (Jan21vJan20)
- P based fertiliser prices roughly doubled in same period



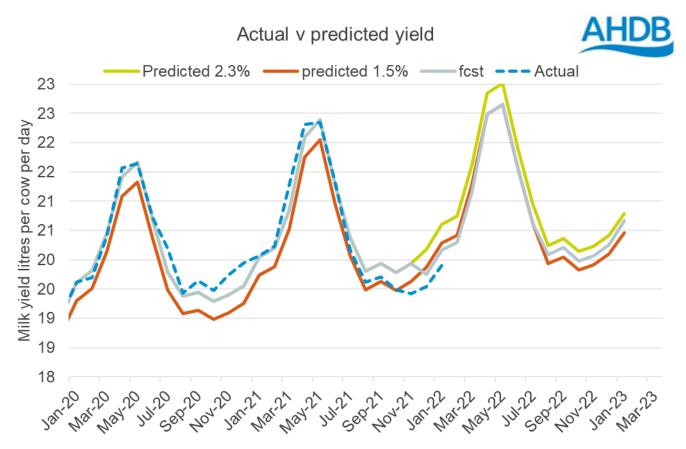
## Impact on yields



- Yield response can be a few months delayed from price pressures
- Prior to this yield drop-off, we had been assuming 2.3% annual growth in yields
- Notable drop-off from July 2021
- Strong yields in late 2020 inflate the difference

#### Yield forecast





Source: BCMS, Defra, AHDB

- Historically yields were growing by 1.5% and then 2.3% year-on-year
- Yields have been low since July, believed to be due to high costs
- Yield growth expectations were lowered in December '21 forecast (grey line), but with expectation of recovery
- Actuals still running below this



## Latest milk forecast

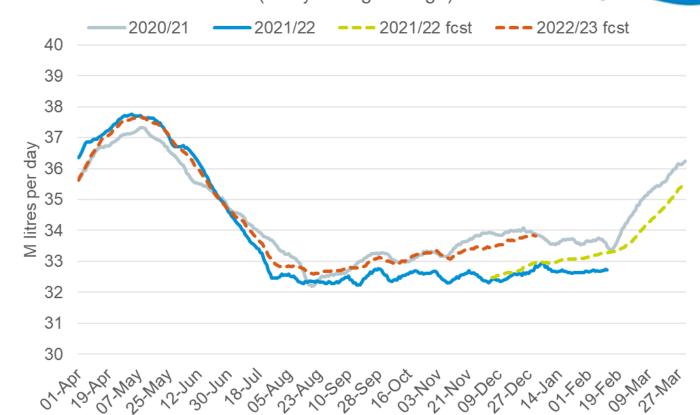




## GB milk production – Dec forecast 2022/23

#### GB daily milk deliveries with Dec21 forecast (7 day rolling average)

ast AHDB

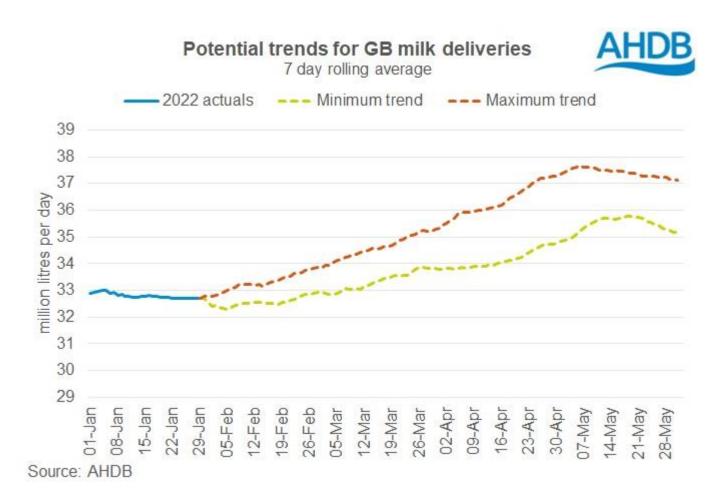


- Dec forecast predicted 2021/22 to come to 12.4bn litres, down 1.2% on 2020/21
- Calendar year 2022 was projected to reach 12.5bn litres
- Expected production to start picking up from December onwards
- Actuals tracked forecast for rest of December but flattened out below forecast in January

Source: AHDB



## Peak milk production



- Back in June we forecasted a 2022 peak of 38.2ml, pushing processing capacity
- Low production since then has brought expectations back
- Graph based on peak trends from the last 7 years applied to Jan production
- Dec forecast ran similar to max trend
- Continued low production brings down peak expectations

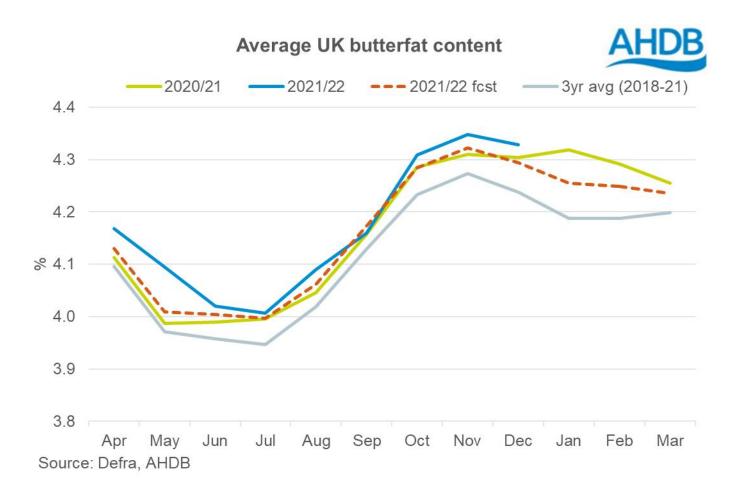


## Compositional quality





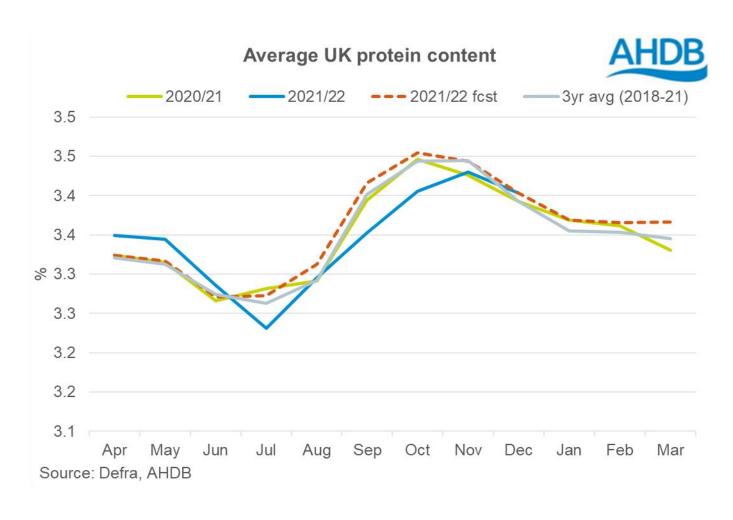
#### Latest butterfat vs forecast



- Butterfat content mostly above forecast so far this season
- 2021 ran high in the first part of the year then moved closer to year-ago levels
- Forecast based on improvement trend over last 5 years
- Forecast was done in April 2021



### Latest protein vs forecast



- Protein levels were low through summer and autumn
- November and December back in line with year-ago levels
- Is this due to feed/costs?
- Forecast based on improvement trend over last 5 years
- Forecast was done in April 2021



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The website has a wealth of resources available from our <u>markets homepage</u> including a <u>daily update on grain markets</u>. The <u>supply and demand section</u> is a key resource for the market whilst the latest surveys detail <u>planting and variety</u> trends.



The <u>Dairy markets homepage</u> will signpost you to the industry data, analysis and insights from the dairy sector to help inform your business decisions. Our industry experts will guide you through the <u>market movements</u> and provide a clear, impartial view on what it all means.



The <u>latest pig prices</u>, and industry essential <u>trade data</u>, are the cornerstones of the Pork market website pages. There is also the <u>latest analysis</u> and <u>insight</u> to provide you with a clear and impartial view.



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