

$\mathbf{A}_{\mathbf{GRICULTURE}}$ and $\mathbf{F}_{\mathbf{OOD}}$ $\mathbf{D}_{\mathbf{EVELOPMENT}}$ $\mathbf{A}_{\mathbf{UTHORITY}}$

Review and Outlook Inputs and Crops



Fiona Thorne

Outlook 2022 Conference Webinar December 7th, 2021





Overview

- 2021 Inputs and Crops
 - <u>Where we are now in terms of the farm gate</u>
 - » Input costs, yields, price, gross and net margin

- 2022 Inputs and Crops
 - Where we are going in terms of the farm gate
 - » Input costs, yields, price, gross and net margin









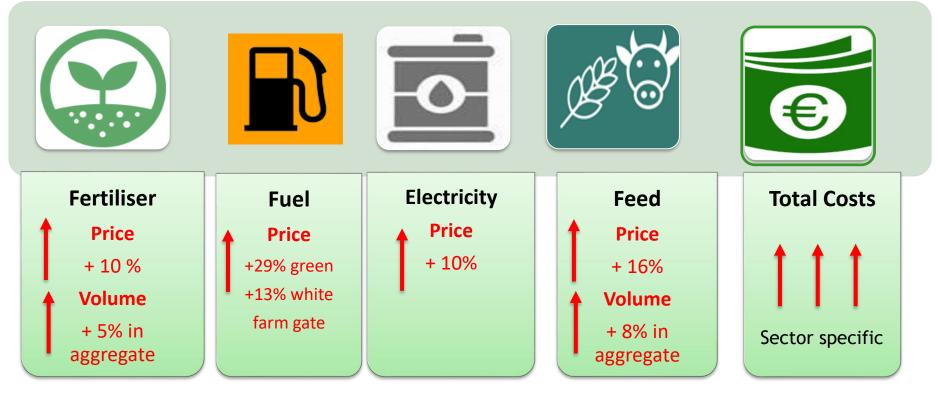
Inputs Review and Outlook



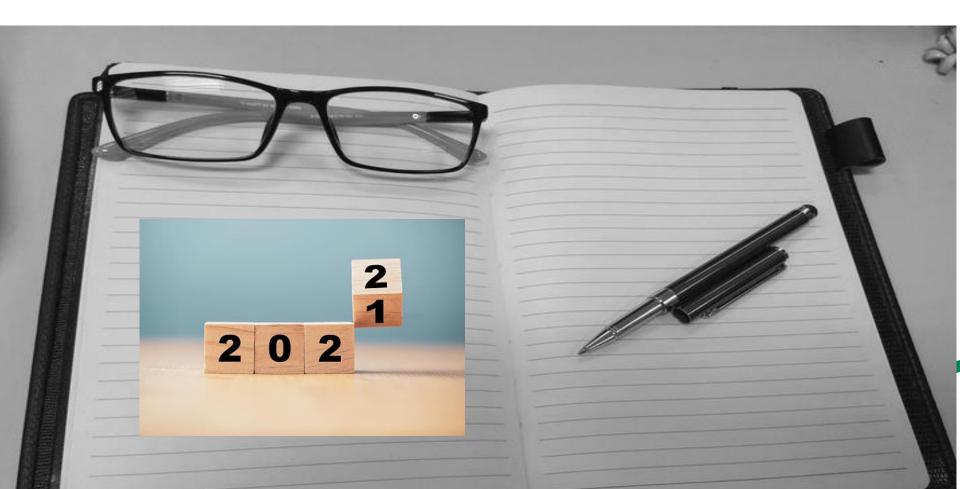




Inputs 2021 (Price > volume change)

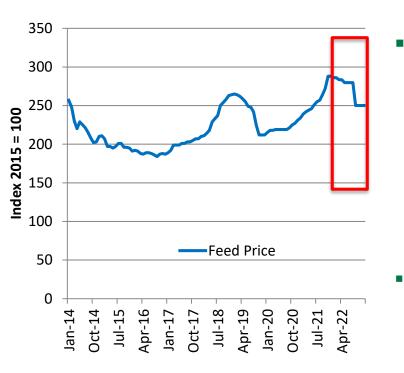






2022 Input Story: More price increases

Feed: More price increases on top of 2021



Feed price is a tale of two halves

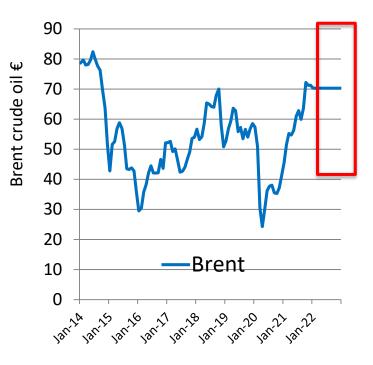
- » Increase in H1 2022 compared to same period of 2021
 - 'hangover' from 2021 harvest price increases
- » Decrease in H2 2022 compared to same period of 2021
 - still much production uncertainties
- 6 percent increase for the year
- Feed volume: No change to plus 7% (on a per head basis)
 - » Due to fertiliser price story



Source: CSO and Author's estimates

2022 Input Story: More price increases

Fuel: More price increases in 2022 for the full year



- Fuel: more price increases in 2022 for the year as a whole
 - » Brent crude oil 16% increase in Euro terms
 - » Slightly lower increase in US\$, but ER to heighten € increase

Account for price transmission at the farm level

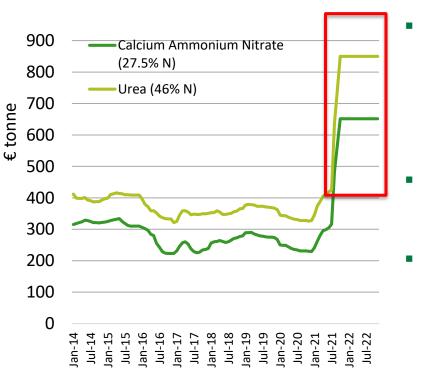
- » Carbon tax increases
- » Green diesel: 20% increase in 2022 at farm level
- » Motor fuel index: 12% increase in 2022 at farm level
- » Sector specific price increases take usage into account



Source: AHDB and author's estimates

2022 Input Story: More price increases

Fertiliser: Unprecedented price increases in 2022 for the full year



Price up significantly in 2022

- Reflecting <u>gas price</u> increases
- Nitrogen based products <u>up 120%</u>
- <u>P & K</u> lower price increases than N

High price causing production uncertainties

Fertiliser supply uncertainty

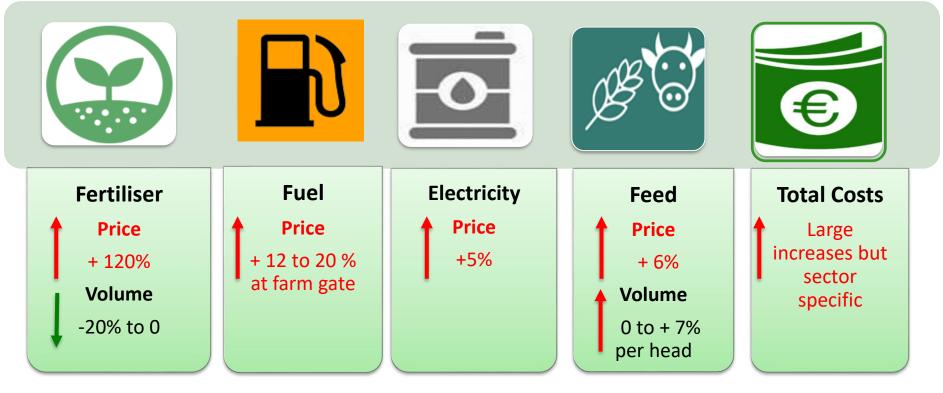
Sector specific price stories

- Purchase <u>timing</u>
- Product specification



Source: CSO and authors' estimates

Inputs 2022 (Large upward price pressure)





From Inputs Summary to....Crops

SUMMARY

Inputs summary

- For 2022 much larger price changes overall
- Some volume change per hectare (some differences at sector & whole farm level)
- Overall upward pressure on prices
 - Feed, fertiliser, fuel, seed
- Implications
 - Sector specific story in inputs for 2022

• Begin with margin story for crops

Given the importance of feed for other sectors





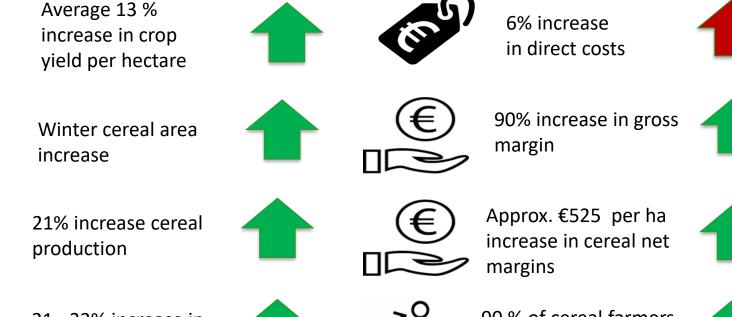
Crops Review and Outlook





2021 – Very Positive News Story for Cereals







21 - 33% increase in cereal prices



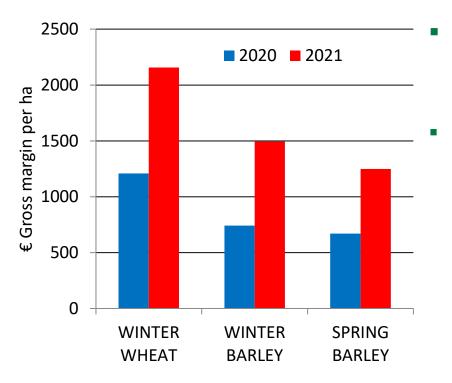
90 % of cereal farmers earn positive net margin





2021 – A Positive News Story for Cereals

Average 90% increase in gross margins for cereal crops in 2021



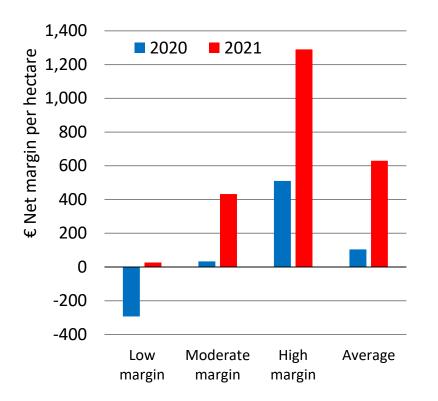
- Increase in yield, price, moisture bonuses, straw receipts and Straw Incorporation Measure (SIM)
- But remember margins in 2020 were extremely low
 - Spring barley: Up €580 per hectare
 - Winter barley: Up €750 per hectare
 - Winter wheat: Up €950 per hectare
 - Variability around margins



Source: Teagasc, NFS and authors' estimates

2021 – A Positive News Story for Cereals

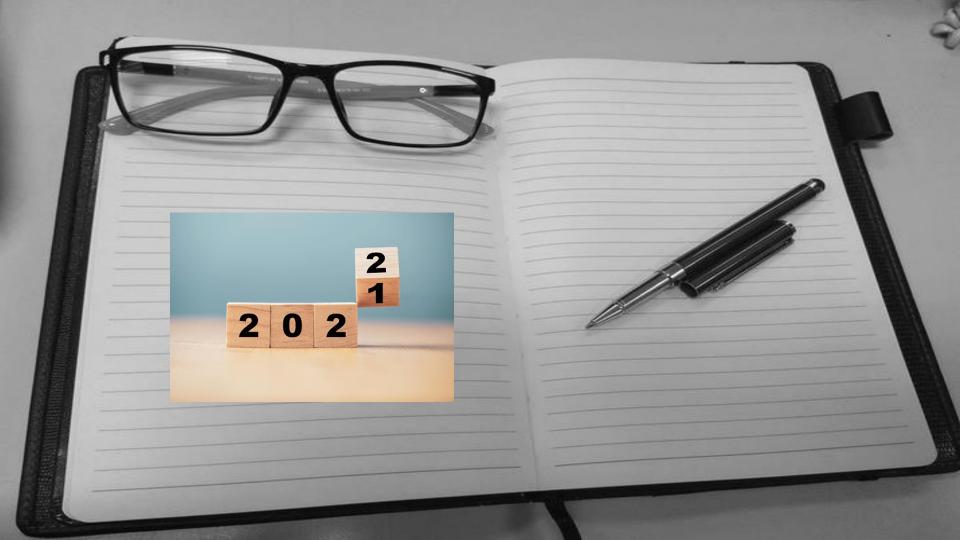
€525 per hectare increase in net margin in 2021

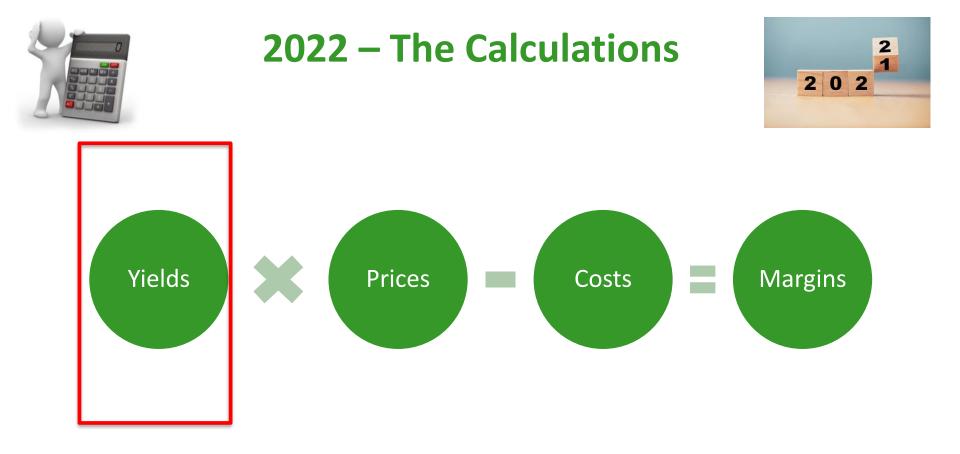


- Average cereal based enterprise on specialist tillage farms
 - Net margin (incl. SIM)
 - Takes account of change in cereal area
- 90 % earn a positive net margin in 2021
 - Average = € 630 per ha.
 - High margin farms = €1290 per ha.
 - Low margin farms = €27 per ha.



Source: Teagasc, NFS and authors' estimates







2022 Production To Decrease Very Slightly Very slight reduction in EU production potential in 2022 forecast

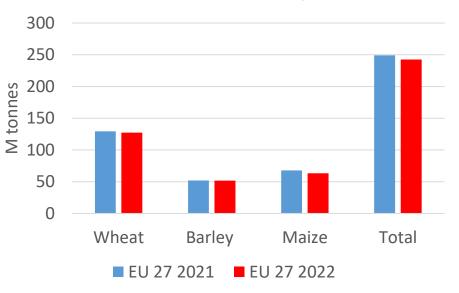
Decrease in <u>some</u> EU stock/use ratios in 2021

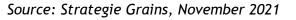
- Increase EU, wheat, barley and maize production
- 4.5 percent increase in EU grains
- But increase in demand for wheat and maize
- Leaving some stock/use ratios low
- Increase in wheat and barley prices

Will '21 global harvest be replicated in '22?

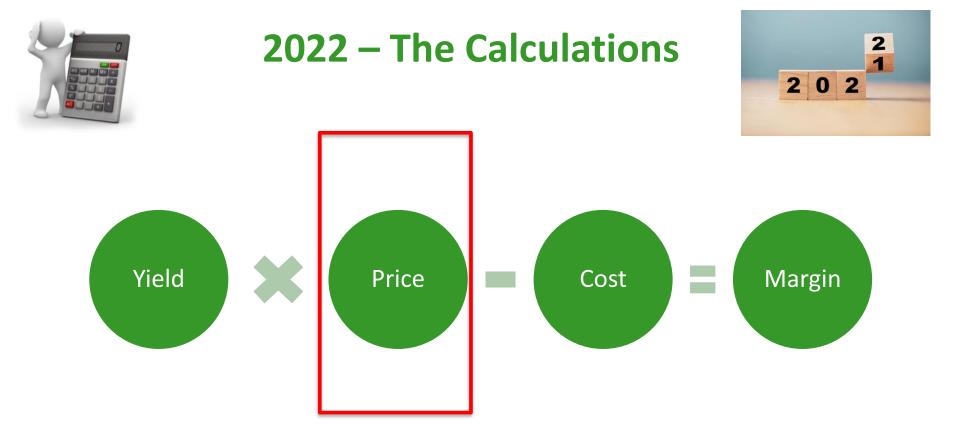
- Not much change in winter plantings in the EU
- Return to trend yield in 2022, lower EU yield potential

Estimated and Forecasted EU Production Grains 2021/2022



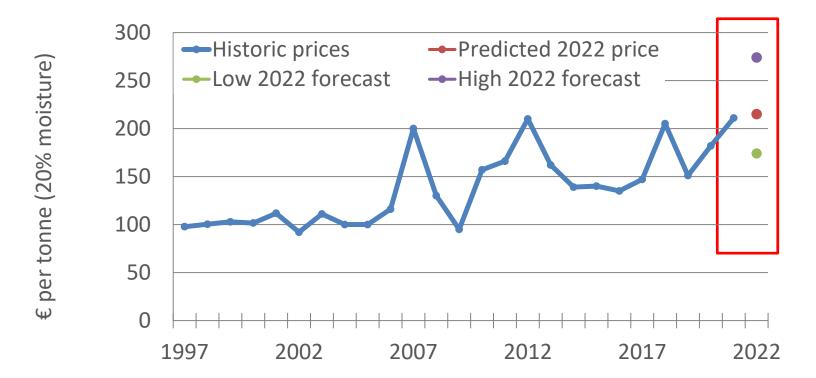








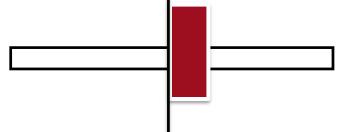
2022 Futures Wheat Harvest Price to Increase (by 2%)





2022 Futures Harvest Price to Increase





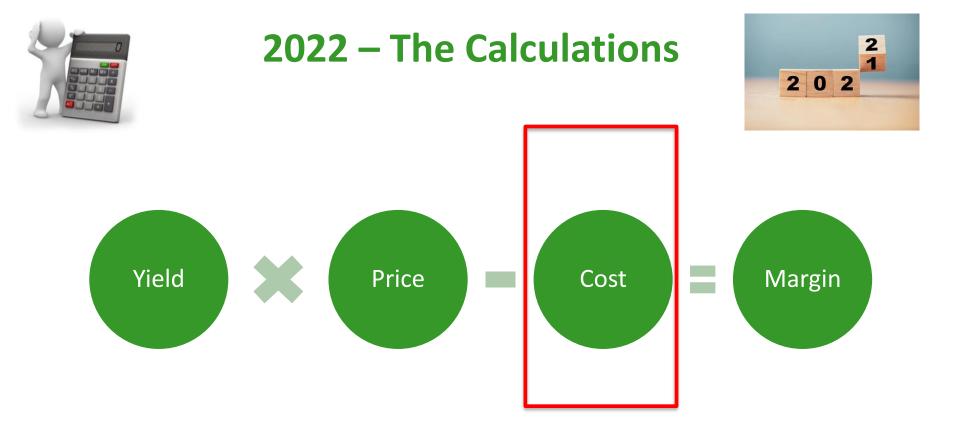


'Grain quality and moisture' ' 'Market fundamentals more in balance' 'Less panic buying'

Slightly positive +2%

'La Niña' 'Trend yields' 'Exchange rate' 'Supply chain difficulties'

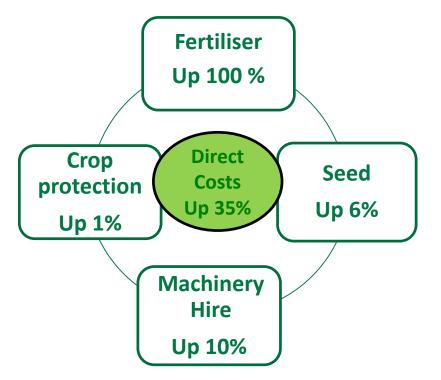




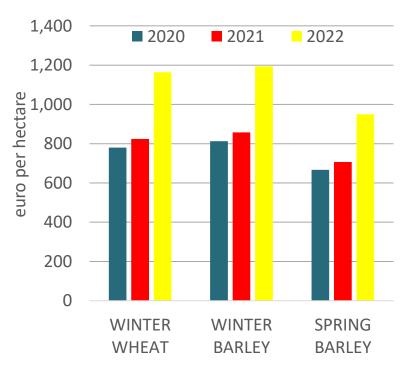


Overall increase in direct costs in 2022

2022 direct costs per hectare



2022 direct costs per hectare



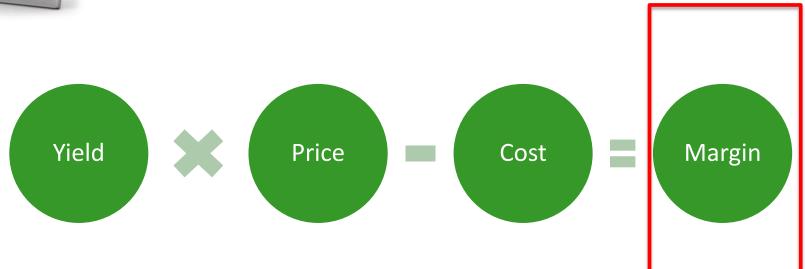


Source: Authors' estimate for 2021 and forecast for 2022



2022 – The Calculations

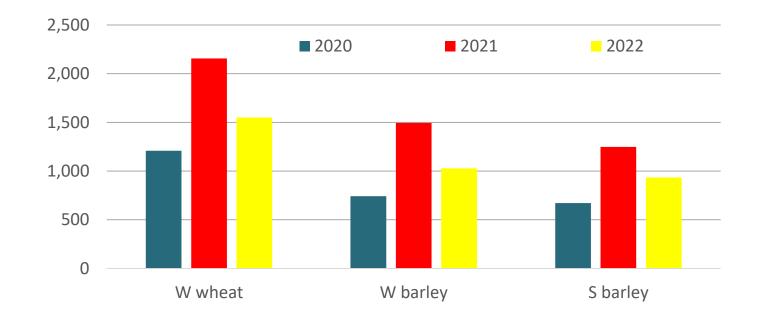






Decrease in 2022 Gross Margins

Gross margin per hectare to decrease by €315 for spring barley and €610 for winter wheat and €470 for winter barley



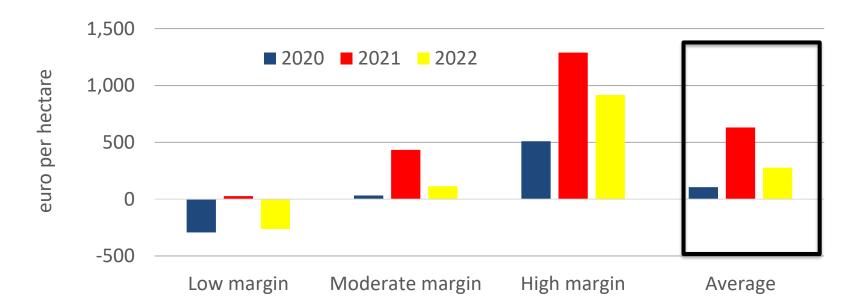


СОБОВС

Source: Authors' estimate for 2021 and forecast for 2022

Decrease in 2022 Net Margins

Net margin per hectare forecast to decrease by over €350 per hectare



Source: Authors' estimate for 2021 and forecast for 2022



Summary of 2022 Crops Forecast

Forecast 2022

- Prices
 - Probability that price will increase at harvest 2022 by approx. 2%
 - Much uncertainties about 2022 price at present
- Reversion to trend yields decrease in yields
- Direct costs to increase by on average 35%
- Overall decrease in gross and net margins in 2022
- Average net margin for cereal enterprise €258 in 2022
- Average cereal based net margin will be negative on 40% of specialist tillage farms



Review and Outlook Inputs and Crops



Fiona Thorne

Outlook 2022 Conference Webinar December 7th, 2021







Agriculture and Food Development Authority