Navigating the choppy Cs Climate, Conflict and (agri) Commodities

CRISIL Research webinar

July 7, 2022

Speakers

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Agenda

Structural factors impacting agri commodity prices

Climate change

Increased geopolitical risk

Here and now factors and price outlook for commodities 2

Weather, demand-supply dynamics, and crop balance sheet

Government and trade policies affecting commodity prices

How commodity price trend would affect food processors 3

Impact on raw material cost

Commodity wise sensitivity analysis on profit margins





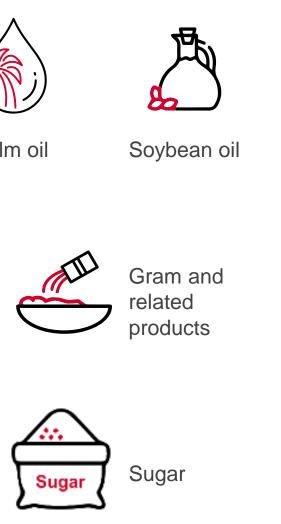
Sunflower oil



Wheat and related products

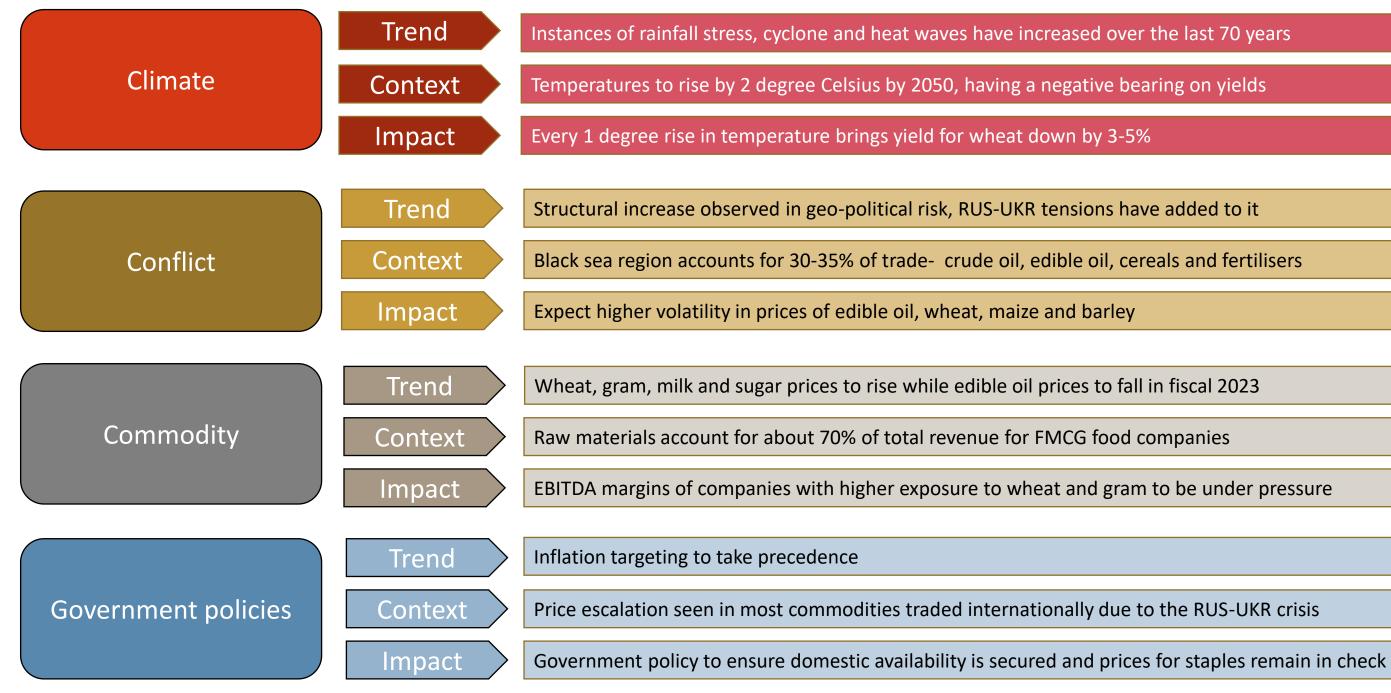








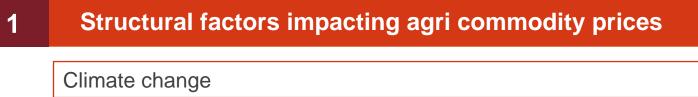
Key Conclusions







Agenda



Increased geopolitical risks

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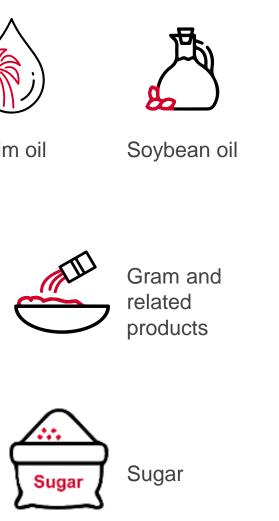
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Wheat and related products











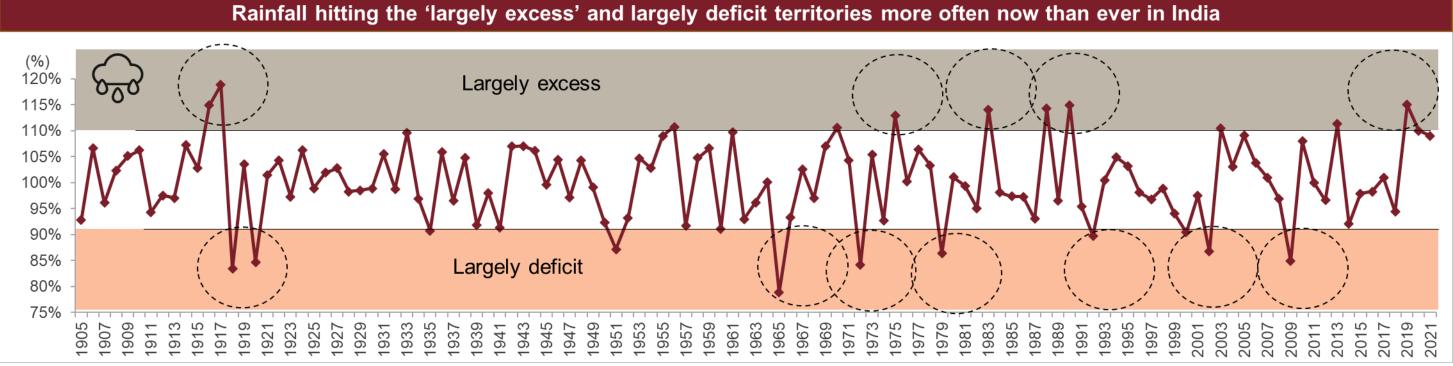
Climate risk

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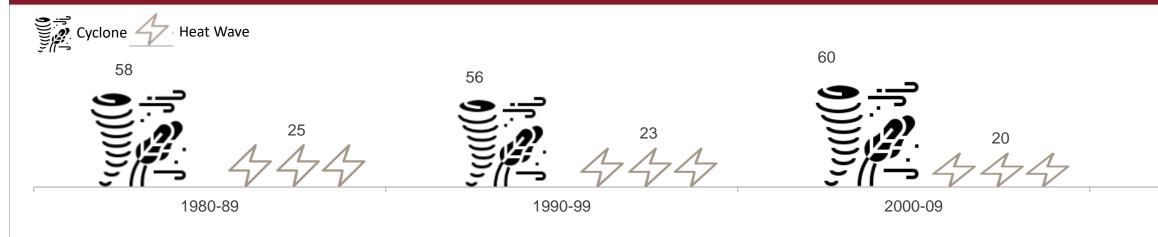
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Increased fluctuations seen in the rainfall pattern; there has been rising instances of cyclones and heat waves, too



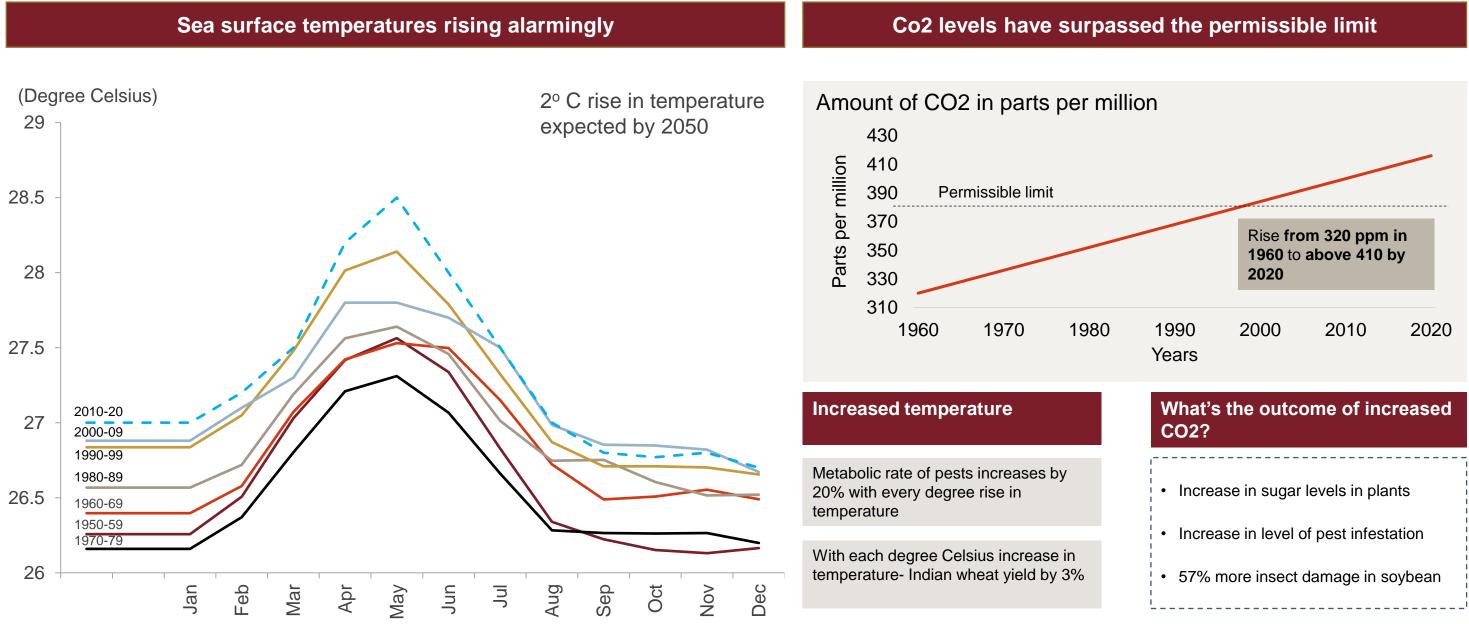
Increasing cyclones and heat waves in India







Rising temperatures and CO2 levels leading to increased pest attacks





Geopolitical risks

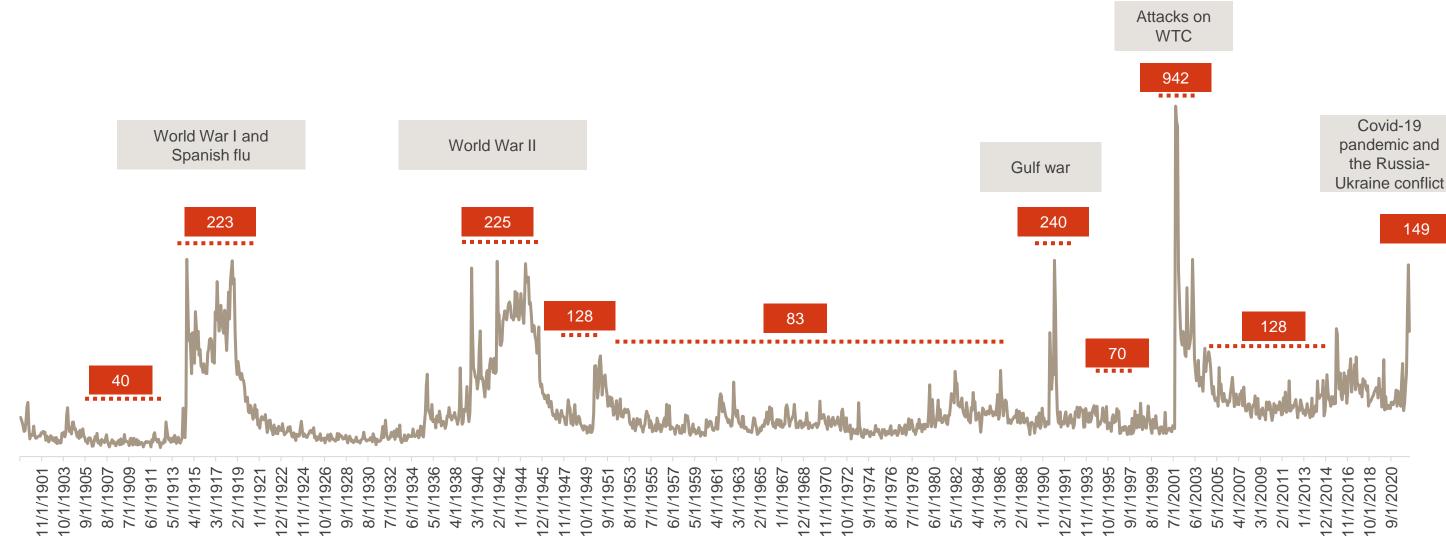
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Geopolitical risk: Heightened risks is the new normal

High geopolitical risk index impacting international commodity trade on a regular basis



Source: Measuring Geo Political Risk-Federal Reserve Board, West Virginia University

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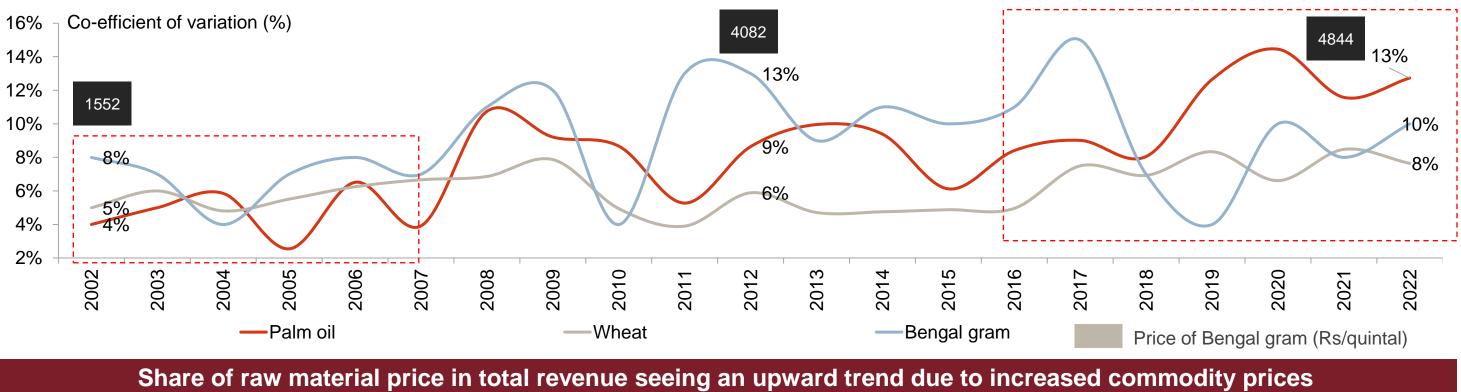
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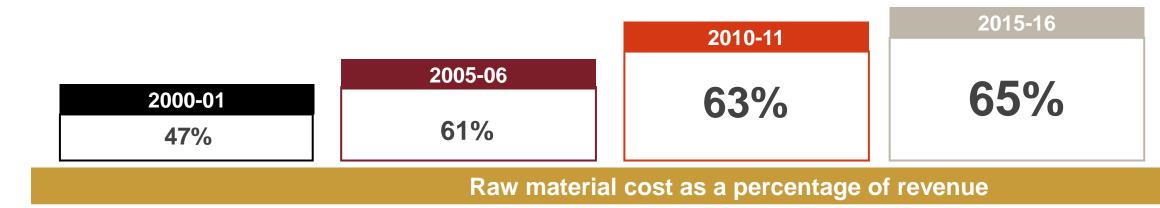




Volatility on the rise

Increased co-efficient of variation for key commodities shows rise in volatility over the past 5 years





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Note: Data pertains to 62 companies n the field of edible oil and consumer food

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69%



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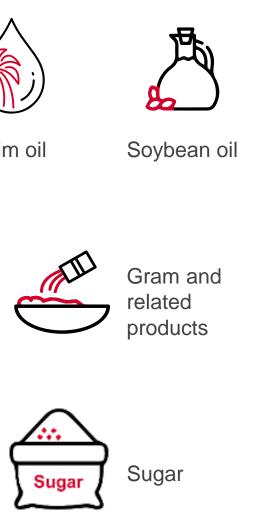
Sunflower oil



Wheat and related products







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Commodity prices

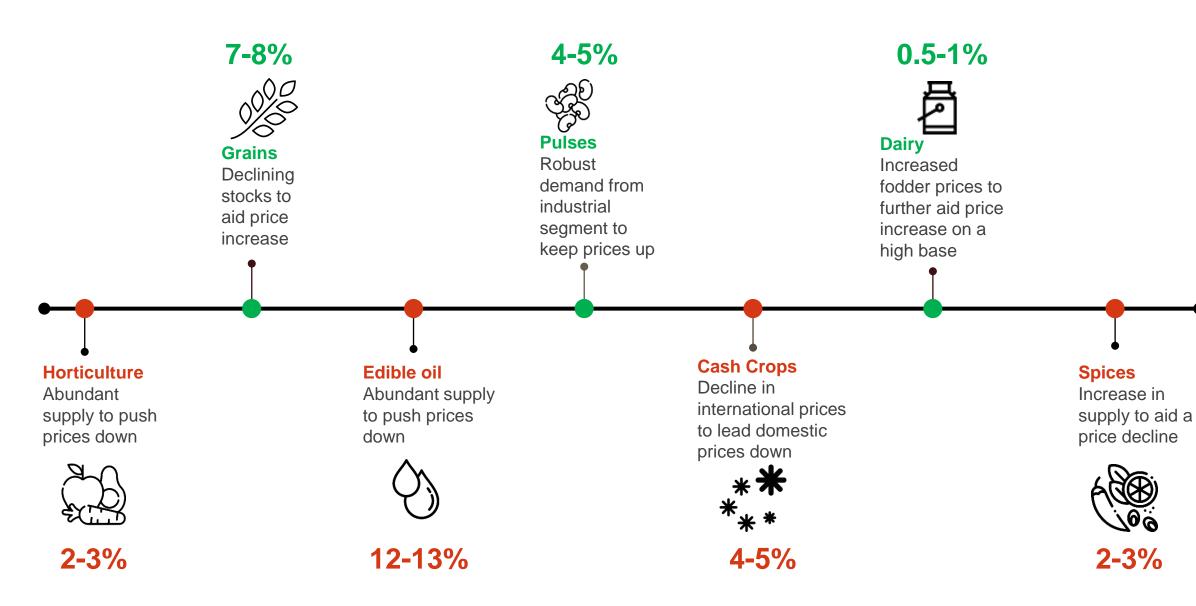


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Mixed price trend to be seen in agri-commodities this fiscal

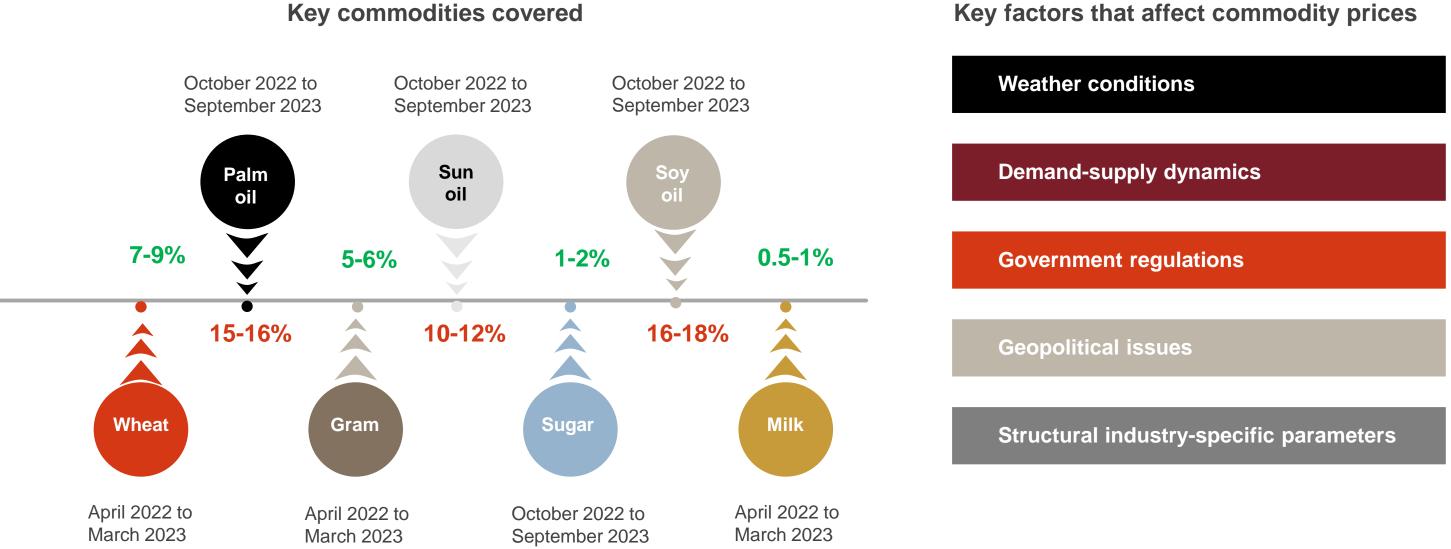


32 commodities covered by CRISIL account for $\sim 80\%$ of Indian agriculture production

Marketing Year Horticulture, Cash Crops, Spices, Grains, Pulses – April'22-Mar'23 Edible oil. Sugar – Oct'22-Sep'23



Upward pricing pressure seen in 70% of the commodities found in the Indian consumer's food basket

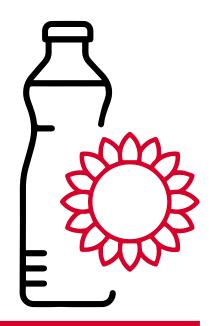


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Key factors that affect commodity prices



Sunflower oil



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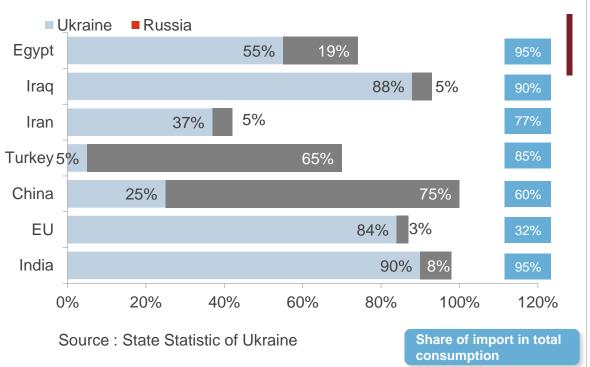
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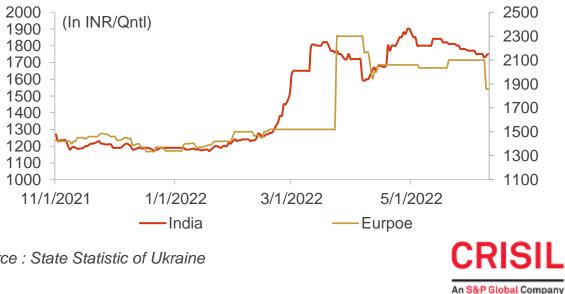
Sunflower seed production to decline

Ukraine Russia Russian invasion Ukraine Russia Acreage -37% -8% Acreage Production -45% -5% **Production** Crush +24% +10% Crush Sun seed stocks in MIn tons 2020-21 2021-22 Russia 0.1 1.1 Ukraie 5.4 0.1 World 2.5 8.5 Research

Around 70% of sunflower oil trade will be disrupted due to UKR-RUS tension

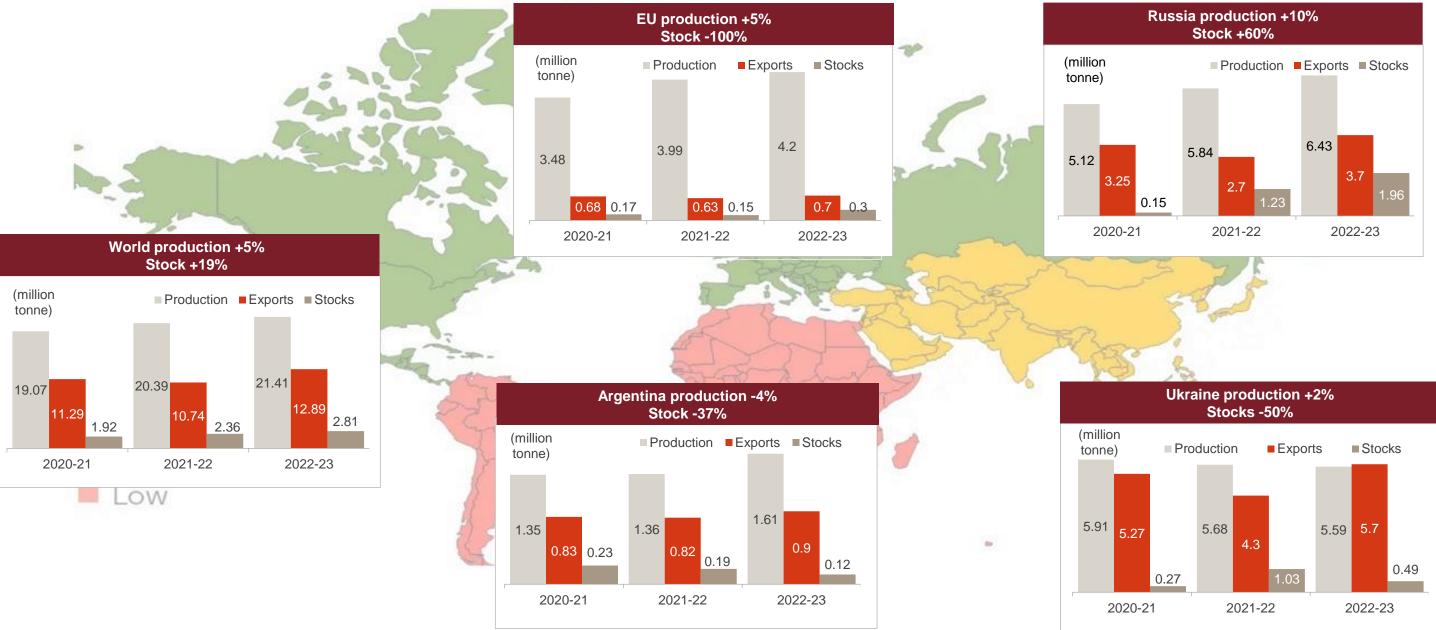


40% increase in Indian & Global prices post war



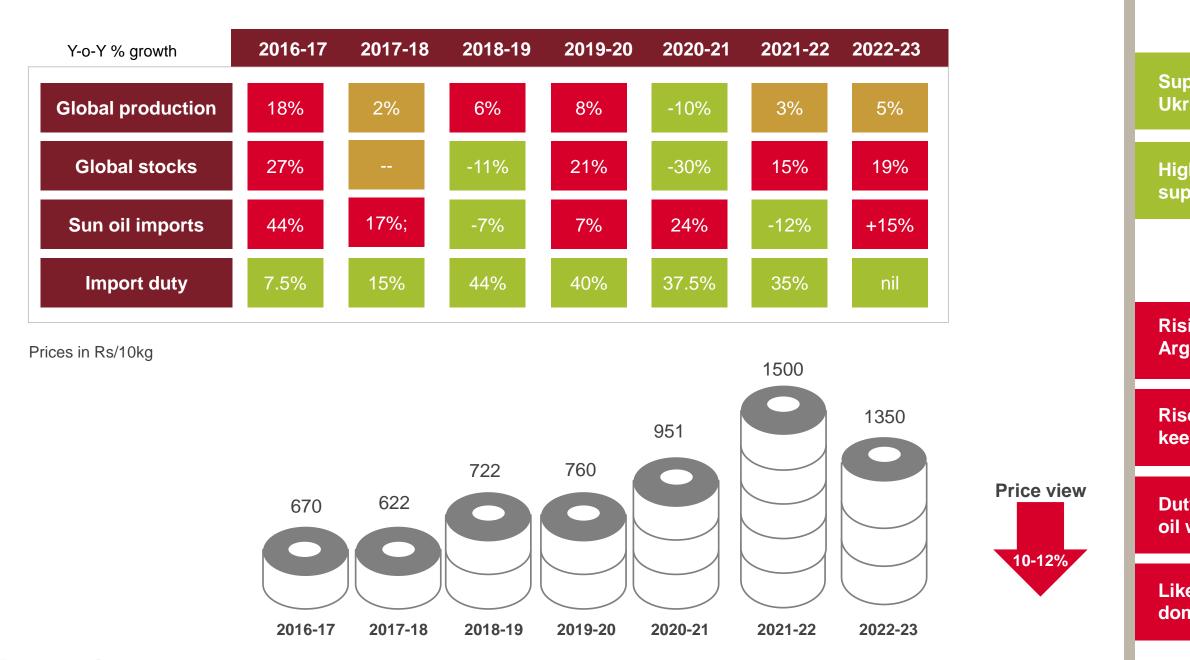
Source : State Statistic of Ukraine

Higher sunflower seed carryforward stocks of last year in Ukraine and Russia to keep global sunflower oil output up 5% in OY 2023





Sunflower oil prices to decline gradually with surplus supply arriving from top producing countries









Supply disruption on the **Ukraine front**

Higher crude oil prices will support edible oil



Rising share of Russian and Argentinian supplies to India

Rise in global stocks will keep global prices low

Duty cut in Indian sunflower oil will support imports

Likely fall in global and domestic edible oil prices

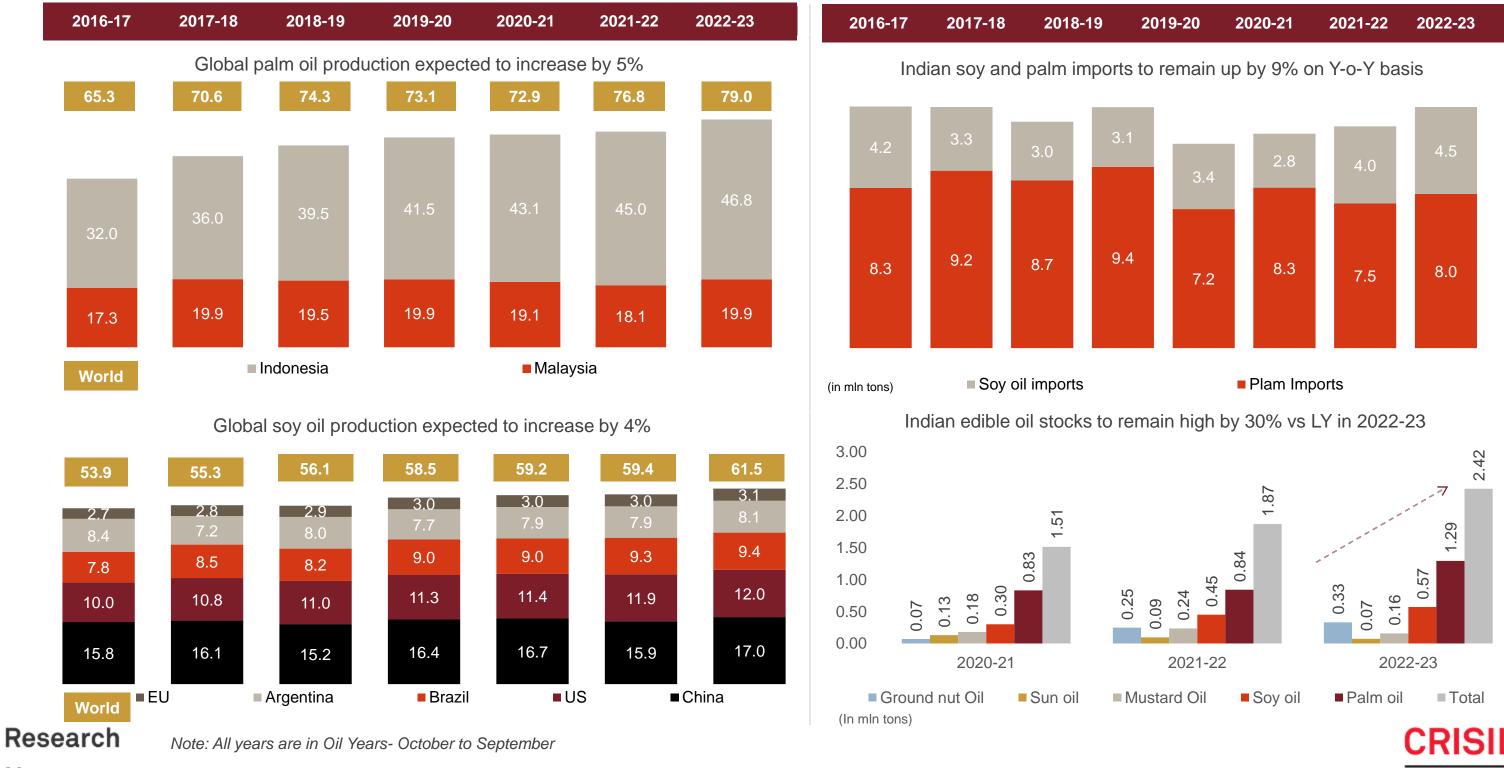




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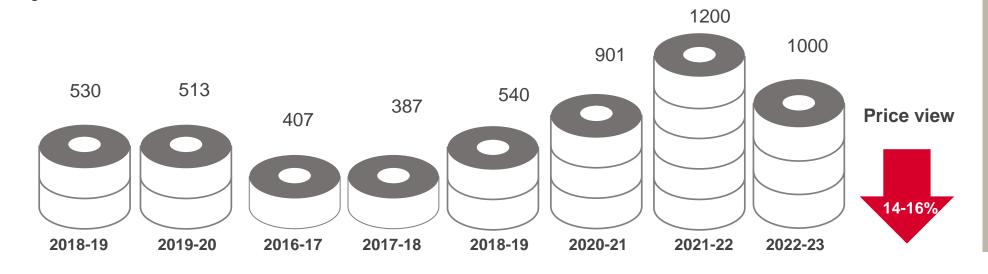
Higher supplies to keep prices down



Factors impacting palm prices



Prices in Rs/10kg



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Note: All years are in Oil Years- October to September



Labour shortage still persisting in Malaysia and Indonesia

Likely decline in Indonesian palm oil production with lumpsum FFB damaged during 3-week ban



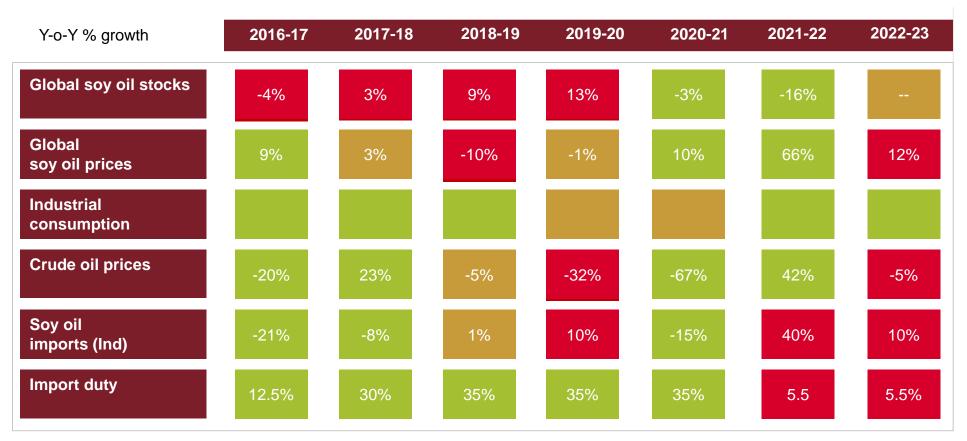
Aggressive selling by Indonesian exporters after lifting of ban

Duty reduction on crude soy and sunflower oil by India will affect palm oil demand and thus prices

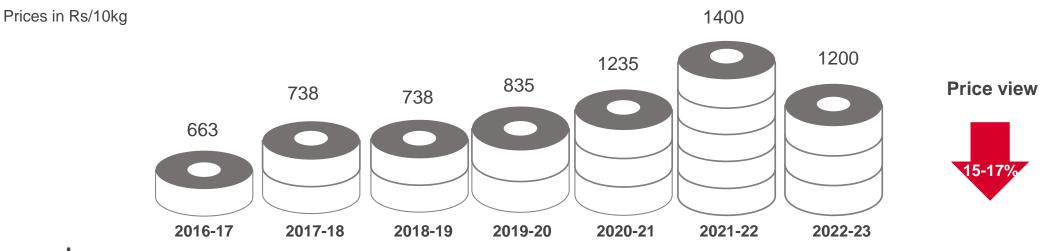
Increase in global edible oil supply to keep overall prices down

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Factors impacting soy oil prices



Note: All years are in Oil Years- October to September



Brazil

Poor Indian soybean meal export demand

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Likely fall in Argentinian soy oil output for third consecutive year

Increase in bio-diese mandates in the US



Huge supply of soy oil imports in India, mainly through Argentina and

Government initiatives to curb edible oil prices-zero import duty for 2 million tonne of soy oil

Resuming sunflower oil supply from Russia and Argentina



Wheat, refined flour (maida) and semolina (suji)

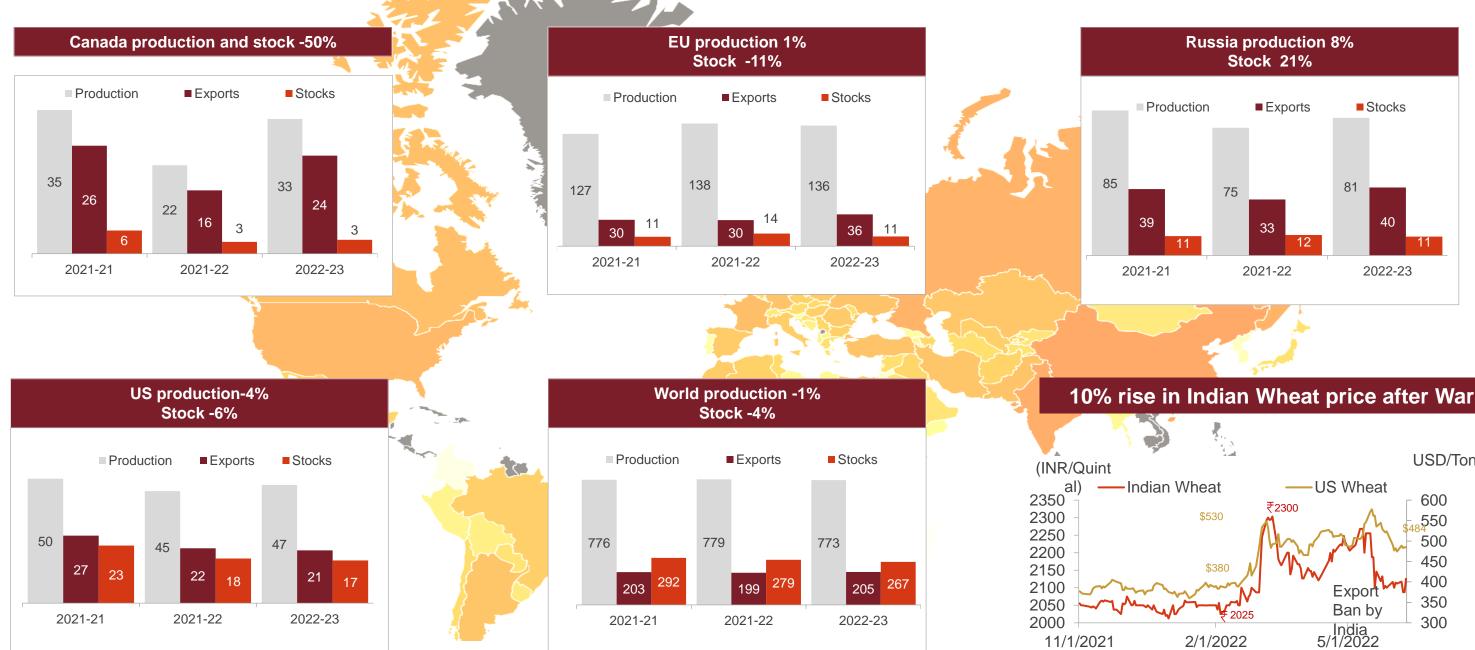


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Global wheat stocks may fall to 267 MT, the lowest in the past 6 years



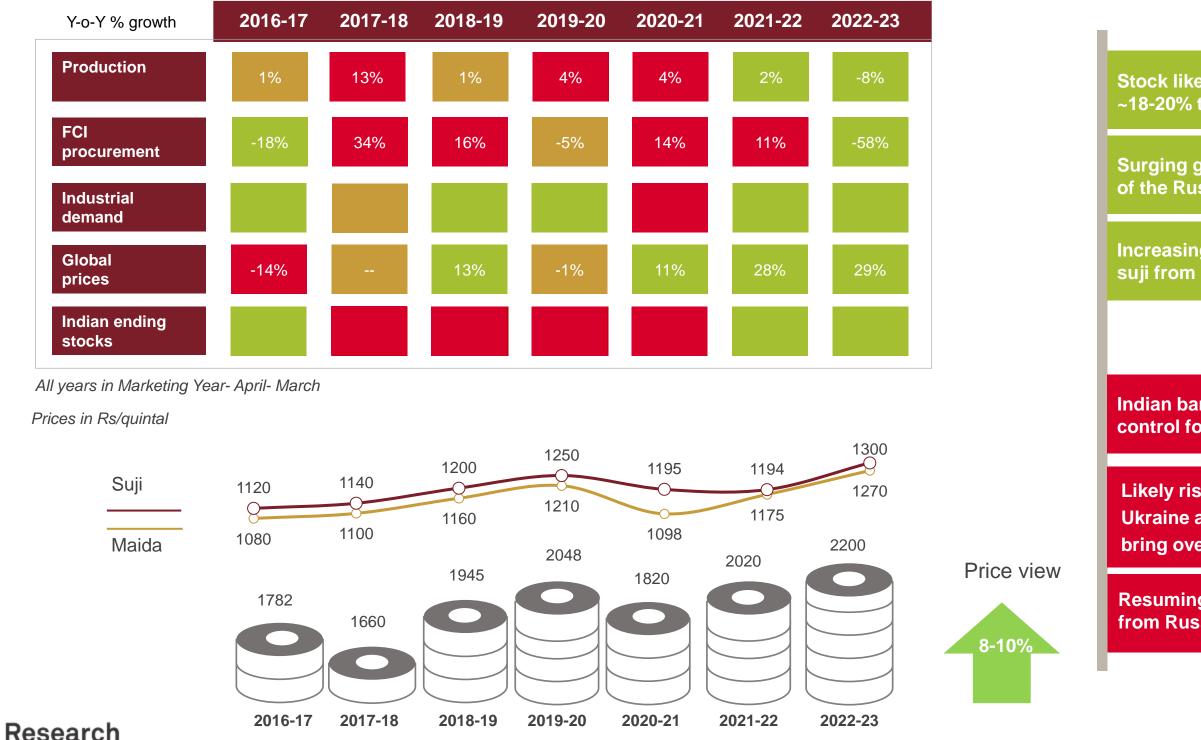
Figures in million tons

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USD/Ton



Lower domestic harvest to further push up wheat prices in India







Stock likely to decline by ~18-20% this fiscal

Surging global demand because of the Russia-Ukraine conflict

Increasing demand for maida and suji from HORECA and FMCG



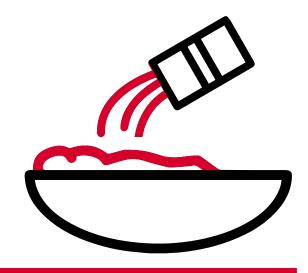
Indian ban wheat exports to control food Inflation

Likely rise in wheat exports from Ukraine and Russia post war would bring overall prices down

Resuming sunflower oil supply from Russia and Argentina



Gram and gram flour (besan)

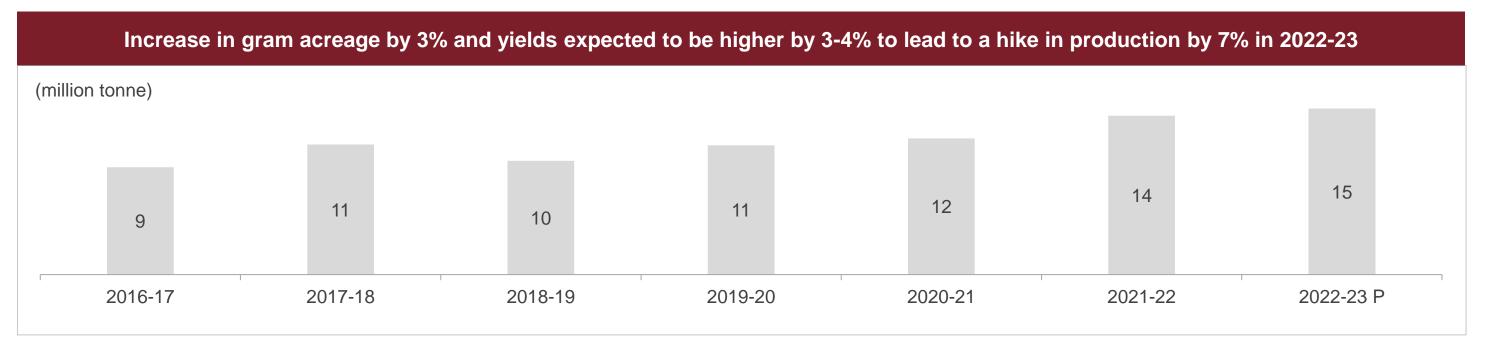


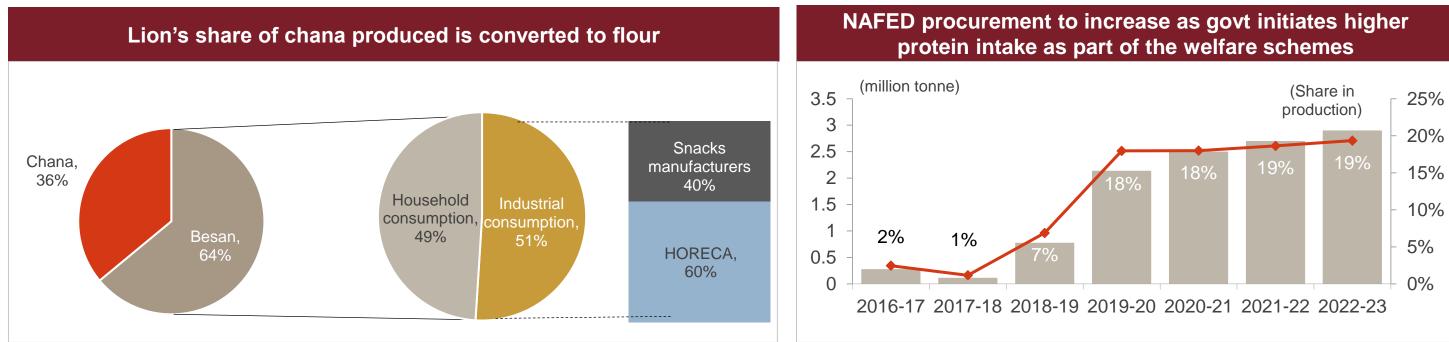
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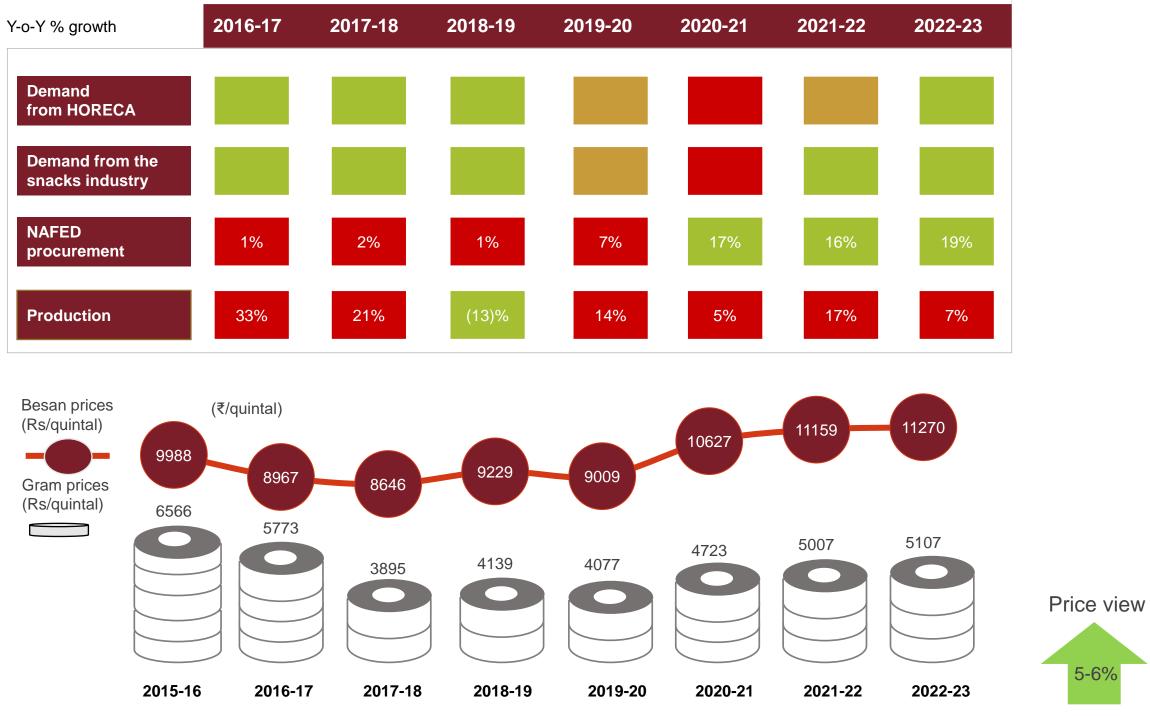
Key factors affecting prices







Gram and besan prices to inch up in this and next fiscals



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Robust industrial and household demand

Increased procurement by NAFED to decrease availability in mandis



Production to increase by 17% led by increased yields

Acreage expected to increase in the next season as well





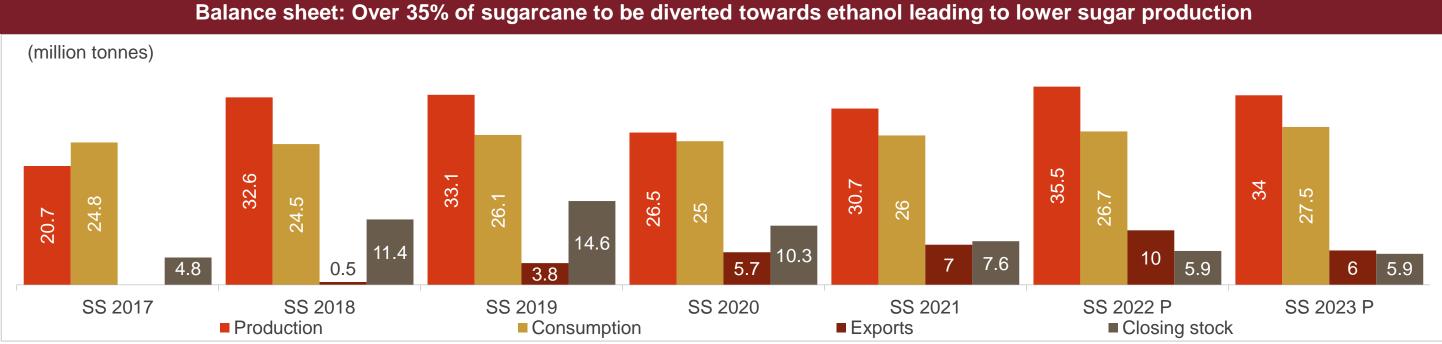


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Closing inventories to deplete further with a climb in ethanol blending in **SS 2023**



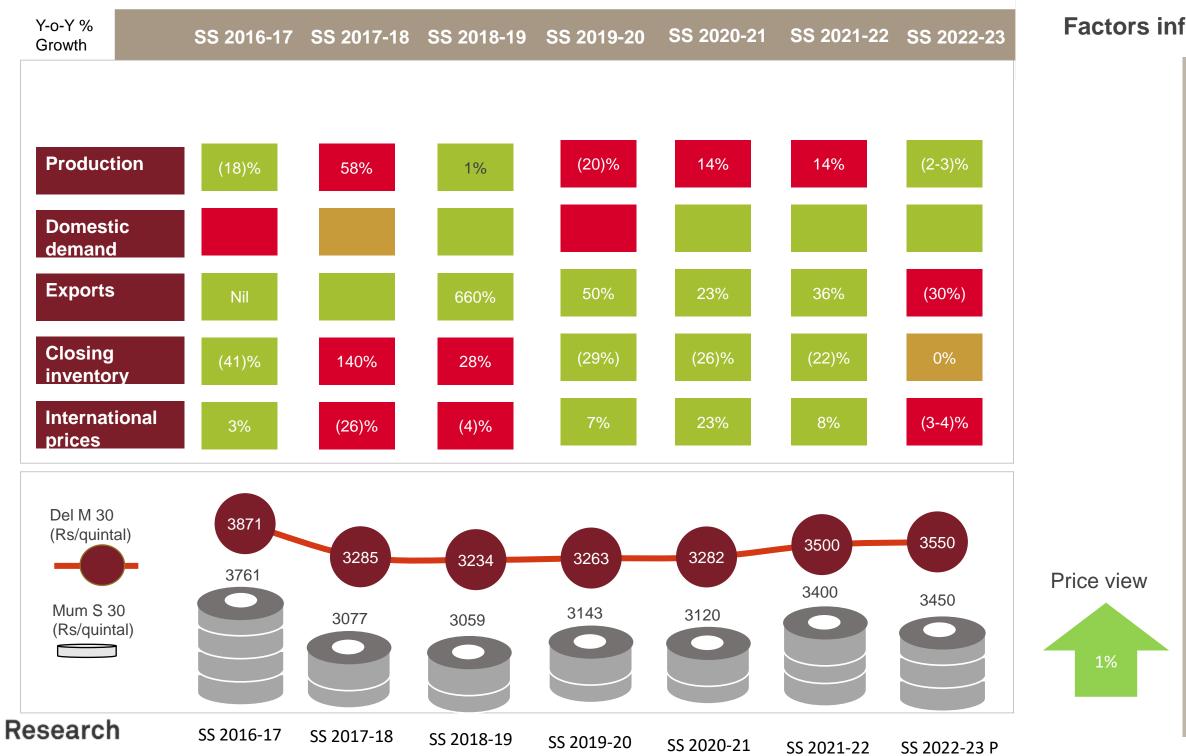
Export realisations to fall as global prices are expected to decline 4-5% as Brazil is expected to increase sugar production in the next season



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Sugar prices to moderate in SS 2023 with global crisis easing out



Factors influencing price movement



Rising crude oil prices encourage ethanol production

12-20% excise concession on ethanol blended petrol

Robust industrial demand with no covid restrictions



Easing of global crisis to lead to moderation of crude oil prices by 15-17%

Brazil is expected to increase its cane diversion towards sugar easing global sugar supply

Domestic sugar production to remain high at 33-34 million tonnes



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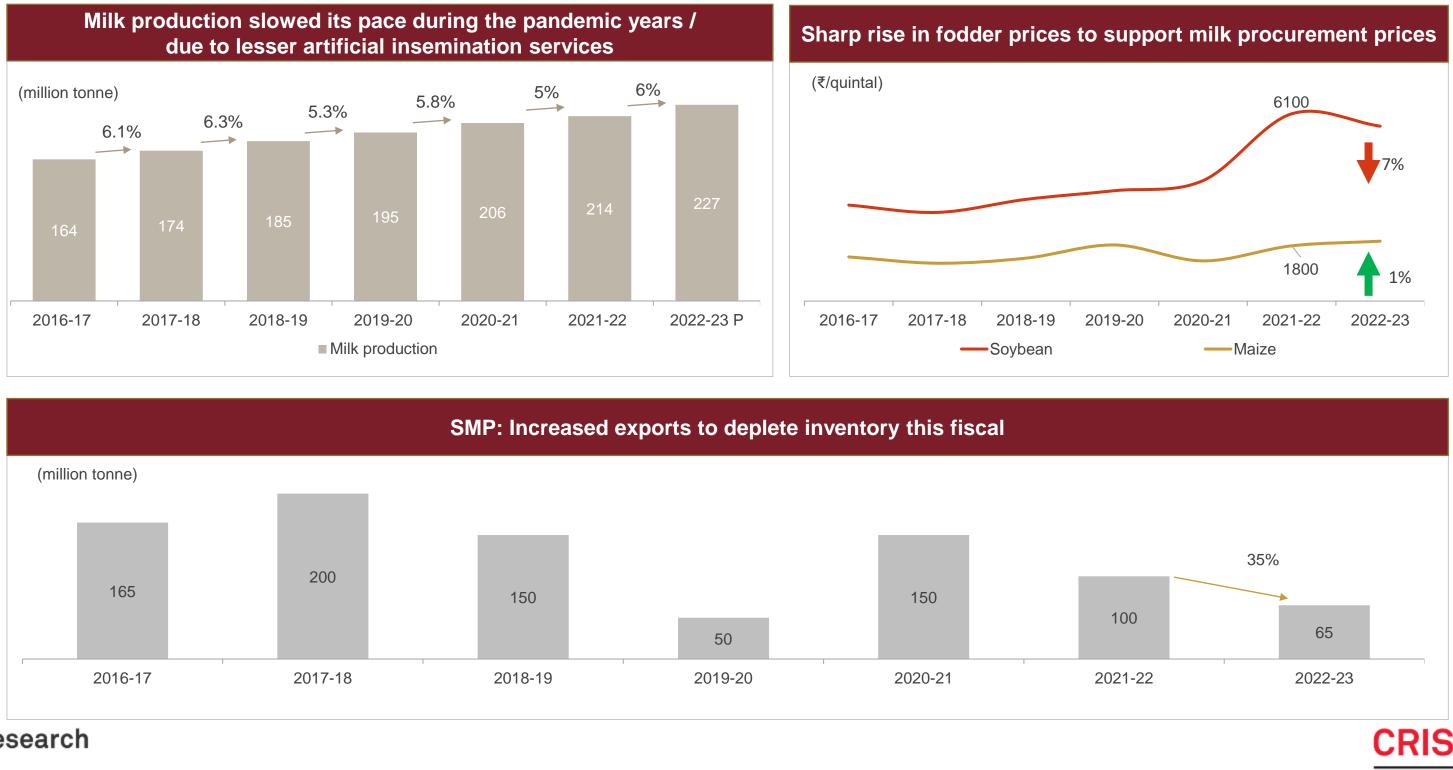
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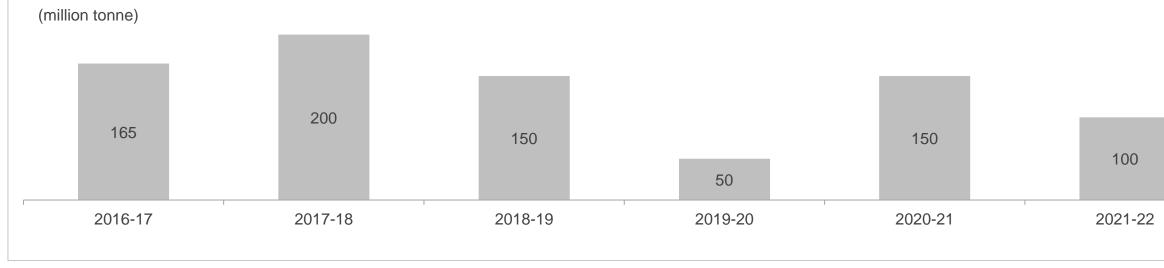
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Milk production to pick up pace as artificial insemination revives

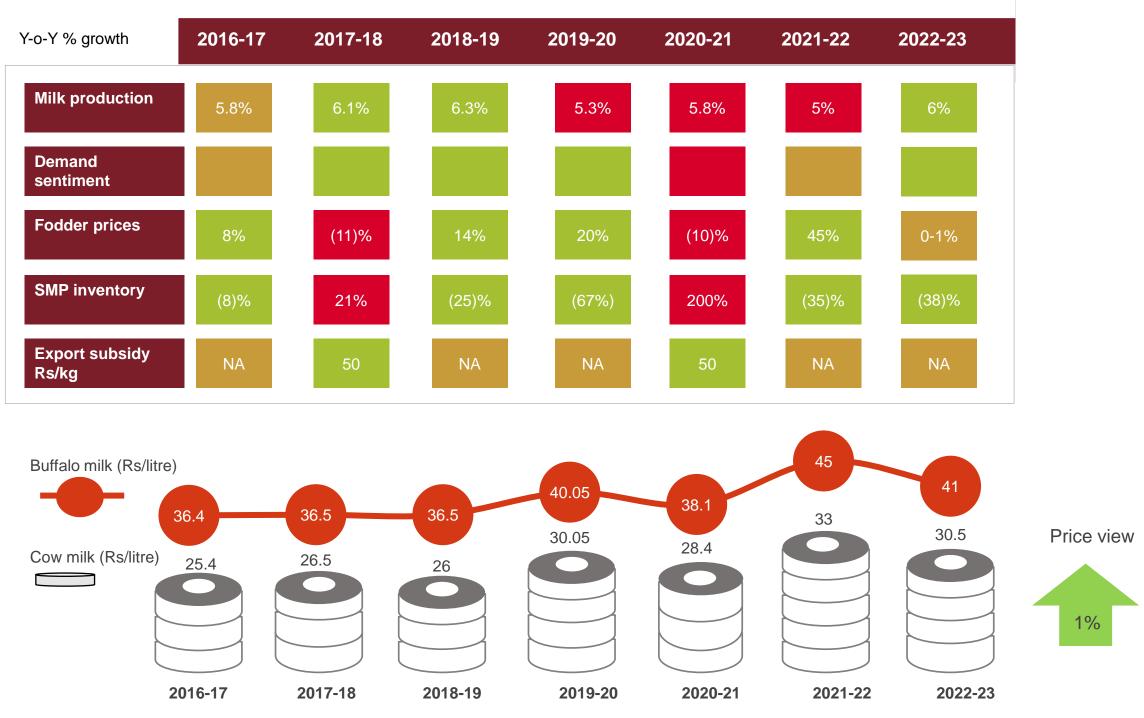




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Key factors affecting milk procurement prices



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Increased fodder prices

Robust industrial demand with no pandemic restrictions



A pick-up in artificial insemination services leading to increased milk availability

Increased animal yields with government initiatives



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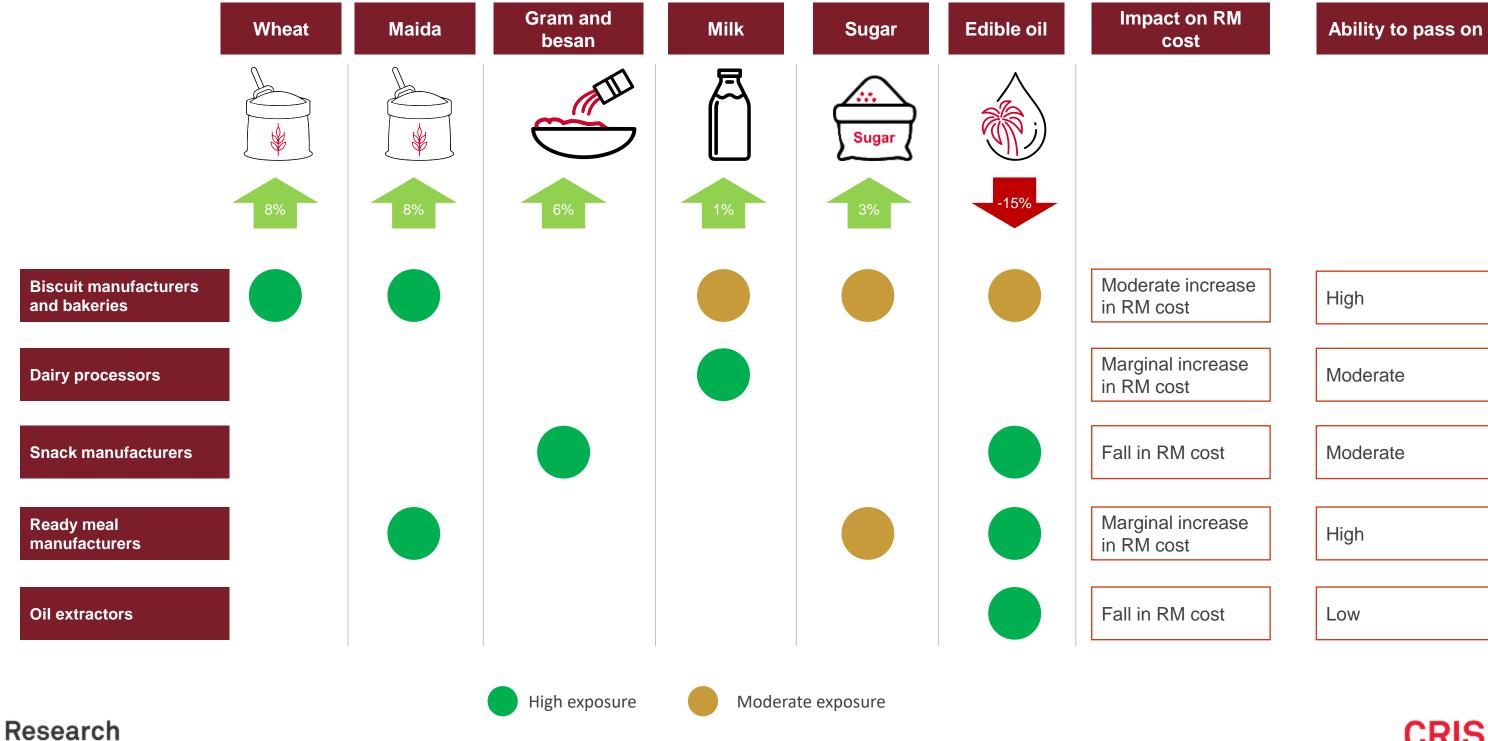




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What it means for companies in the segment





Sensitivity analysis between raw material prices and margins

	For biscui						t manufacturers			
	Raw material price increase					Sugar	Raw mater			
	4%	8%	10%	12%	0		4%	8%		
0%	-120 bps	-230 bps	-290 bps	-350 bps	increase	0%	-30 bps	-60 l		
1%	-30 bps	-140 bps	-200 bps	-260 bps		0.25%	-10 bps	-40		
2%	60 bps	-60 bps	-120 bps	-170 bps	Price	0.5%	10 bps	-10		
4%	220 bps	110 bps	50 bps	0 bps		1%	60 bps	30 b		

- EBITDA margins of biscuit manufacturers is more sensitive to maida than sugar prices
- Maida accounts for ~60% of their raw material cost, while sugar accounts for only ~15%

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Price increase

erial price increase

, D	10%	12%		
) bps	-70 bps	-90 bps		
) bps	-50 bps	-70 bps		
) bps	-30 bps	-40 bps		
bps	10 bps	0 bps		



Summary



Increased severity in climate and rising geo-political risk to increase volatility in prices of key commodities that are internationally traded; like edible oil and maize



Overall agri commodity basket likely to see upward trend with grains and pulses (accounting for 55% of total agri produce) seeing a 4-8% rise while edible oils, horticulture and cash crops (accounting for 30% of total agri produce) seeing a decline of 4-6%. Others would see a mixed trend in FY23



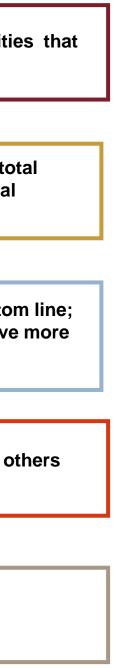
Steady rise in key commodities prices leading to high RM cost for food companies, biting into their bottom line; Biscuit, snacks and ready meal manufacturers to see higher pressure on raw material costs as they have more exposure towards wheat, maida and besan.



Ability to pass on rise in input costs is better for biscuit and ready meal manufacturers as compared to others oil extractor and snack manufacturers.



Optimal time to procure edible oils would be Sep-Oct 2022 as palm production peaks in Malaysia and Indonesia coinciding with oilseed harvest period in India





Introducing CRISIL's agricultural commodity dashboard A single dashboard for gauging price-impacting facto



To know more, please scan the QR code



Question & Answer Session

If you have a question, please click on the 'Q&A feature' at the bottom of your screen and type in your question.

Participants are requested to mention their organization along with their question



Thank You

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Know more on CRISIL's agricultural commodity dashboard



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