

Knowledge grows

Market Update

February 2023

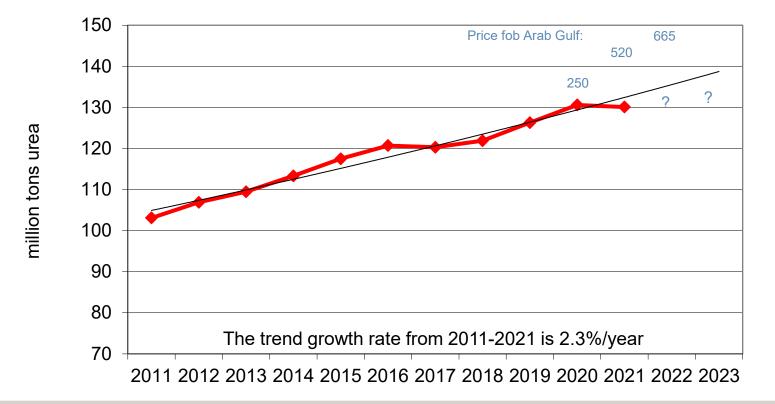


Urea prices - volatile



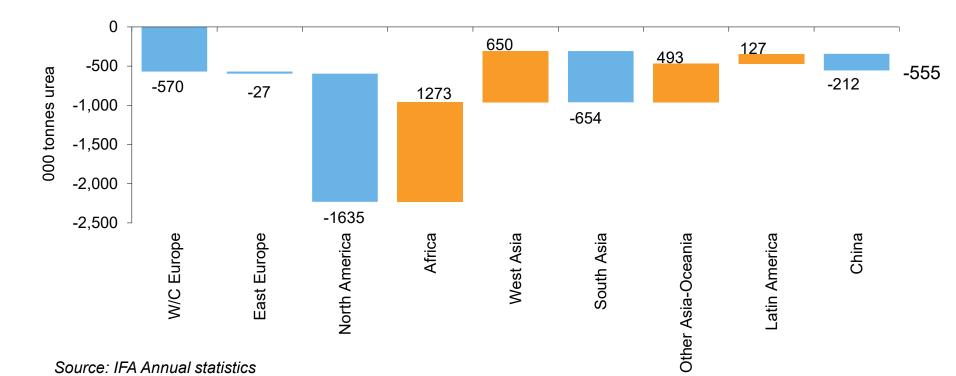


Apparent urea consumption ex. China – limited by supply





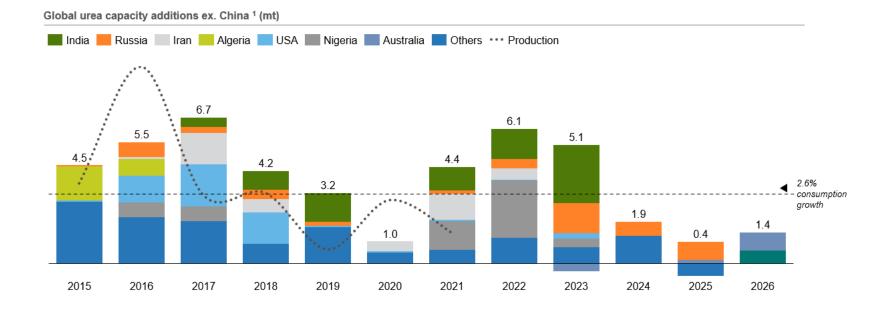
Urea supply outside China decreased by 0.4% (0.6 million tons) in 2021, to 130.1 million tons



VARA

04

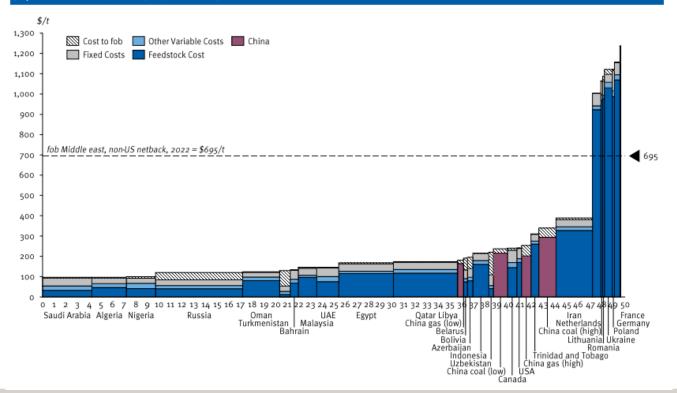
Peak of capacity additions is now



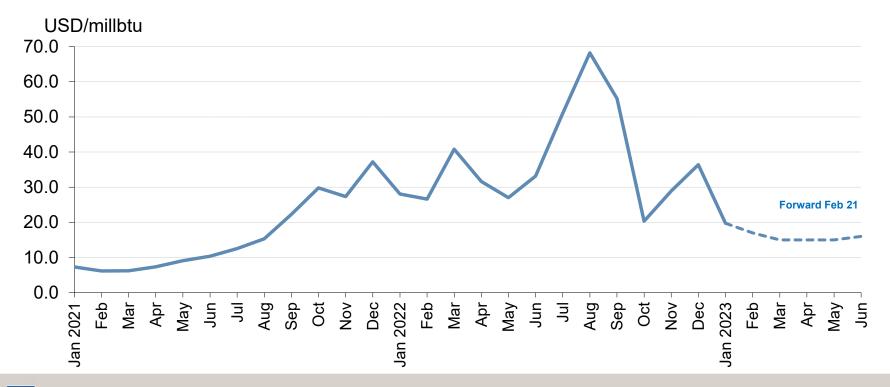
1) Urea projects assessed as "probable" by CRU. Source: CRU Dec 2022

Urea supply curve is vertical around 2022 pricing

Export cost curve, 2022 (fob/fca basis)

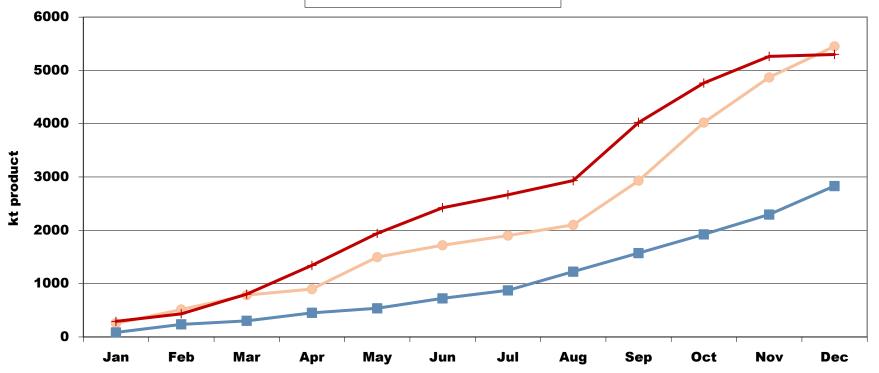


European natural gas (TTF) – below USD20/millbtu



Urea export from China – stronger recently

→2020 **→**2021 **→**2022





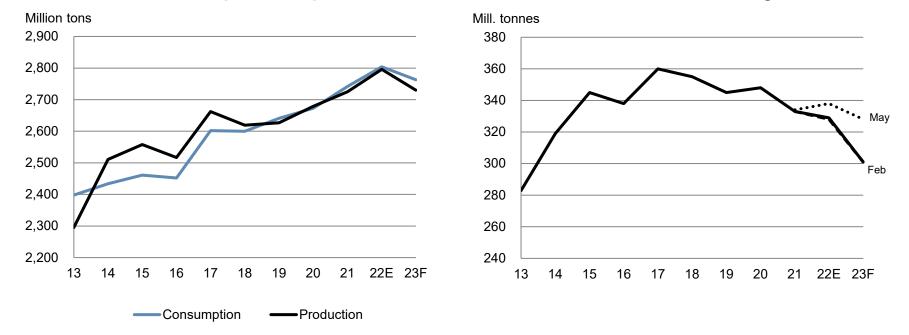
Food prices still high, although down from 2022 peak



*The real price index is the nominal price index deflated by the World Bank Manufactures Unit Value Index (MUV)



Declining grain inventories

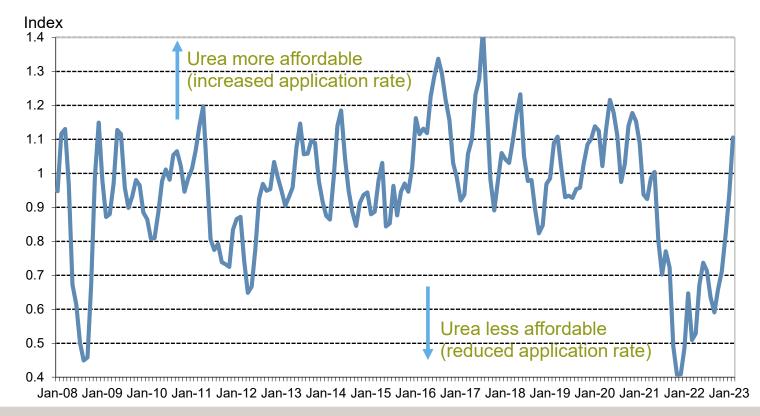


Grain stocks – excluding China

Grain consumption and production

Source: USDA February 2023

Cereal index/urea index – Feb 23 highest since Dec 20



Source: International publications, FAO (2014-2016 = 100) for both FAO cereal index and urea fob Arab Gulf



US net nitrogen imports

