

Russia's war with Ukraine risks putting fresh pressure on rising fertiliser prices

By Wandile Sihlobo 7 Mar 2022

Russia is one of the major players in global agricultural markets. The country is a significant <u>exporter of grains</u>, and also integrated into global agriculture as a supplier of inputs, particularly <u>fertiliser</u>. The country is a leading world supplier of the key ingredients of a range of them.



It's, therefore, important to keep track of the impact of Russia's invasion of the Ukraine on various transmission channels, and the knock on effects they could have on Africa's agricultural markets.

So far the focus has been on the supply and price of grains and oilseeds. The war presents upside risks to both because Russia and the Ukraine make significant contributions to global exports of wheat, maize and sunflower oil.

There are also risks for countries that export to Russia. Globally the country is the <u>13th largest agricultural products</u> <u>importer</u> in value terms. The key products Russia imports include citrus, cheese, bananas, wines, soybeans, apples, pears, beef and palm oil. These are mainly sourced from a range of countries such as Belarus, Turkey, Brazil, Germany, China, Ecuador, Italy, Indonesia, France and Germany.

In the case of South Africa, <u>Russia accounted for</u> 7% of its citrus exports in value terms in 2020. And it's South Africa's second-largest market for apple and pear exports.

But there's a great deal more at play. Russia is the world's <u>leading exporter of fertiliser materials in value terms</u>, followed by China, Canada, the US, Morocco and Belarus. These fertiliser mixtures include minerals or chemicals ranging from nitrogen to phosphourous and potassium.

Fertiliser constitutes a significant share in the growth of <u>agricultural commodities and crops</u> across the world, and also substantial share of input costs.

In South Africa, fertilisers account for about 35% of grain farmers' input costs in South Africa.

As with the grains and oilseeds market, the actual disruption of export activity is yet to unfold. But the extensive sanctions

that Western countries have imposed on Moscow, including the <u>agreement to exclude some Russian banks from some</u> <u>global payment systems such as SWIFT</u>, could negatively affect Russia's trading activities.

This disruption could push fertiliser prices even higher than the spike experienced in the past 18 months. In some cases, for example in ammonia, <u>prices rose by 260% between December 2020 and December 2021</u>. This meant that farmers had to absorb substantial costs for the 2021/2022 crop across the world. The generally higher commodity prices, specifically grains and oilseeds, provided financial flexibility to absorb some of these costs, but not fully. The Russia-Ukraine war will now be an added upside risk on prices for farmers.

For consumers, the knock-on effects will typically be through the size of the final harvest of the crop. Farmers are price takers, and might therefore not necessarily pass on the input costs to consumers.

Fertiliser price dynamics

Fertiliser prices increased sharply in 2021 and remained elevated this year.

For instance, in January 2022, the <u>international prices of a range of key fertiliser</u> ingredients shot through the roof. Since January 2021 the price of ammonia has gone up by 220%, urea by 148%, di-ammonium phosphate by 90%, and potassium chloride by 198%.

A range of factors have been behind these sharp input cost increases. These include supply constraints in critical fertiliser-producing countries such as China, India, the US, Russia and Canada. Rising shipping costs, and high oil and gas prices have also been contributing factors, along with firmer global demand from agriculture produces.

The Russia-Ukraine conflict will add to these price pressures, particularly if Russia's exports suffer as a result of the war and sanctions. The primary markets for Russia's fertiliser material are <u>Brazil, Estonia, China, India, the US, Finland, Mexico, Poland, Romania, and Latvia.</u>

Even countries with small direct fertiliser imports from Russia, such as South Africa – Russia's 36th largest fertiliser materials market – will feel the price pressures.

Last week the US Secretary of Agriculture, Tom Vilsack, <u>said</u> it was too early to know if the war in Ukraine would disrupt international fertiliser trade. But he warned companies against taking "unfair advantage" of the current circumstances by artificially inflating prices.

Africa's fertiliser usage

Countries in sub-Saharan Africa are small consumers of fertiliser compared with other regions of the world. Consumption is estimated at 19,9 kilograms of nutrients per hectare of cropland, which is well below the 128,7 kilograms of nutrients per hectare of cropland in developed countries such as the US.

This <u>low use of fertiliser</u> has partly contributed to generally lower agricultural productivity in the region.

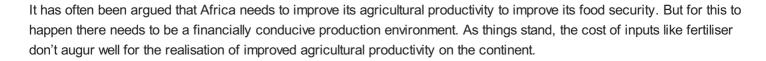
There are numerous reasons for this low use of fertiliser, including affordability issues for the continent's smallholder farmers. The <u>current prices levels</u> have exacerbated the problem. This could keep productivity levels low for the foreseeable future.

But the picture isn't uniform. Countries such as <u>South Africa are major fertiliser users</u>, with an average of 72,8 kilograms of nutrients per hectare of cropland compared to the regional average of 19,9 kilograms.

Zambia is also an important fertiliser user, consuming 52,5 kilograms of nutrients per hectare. Kenya and Nigeria are smaller fertiliser consumers. Consumption for both is less than 30 kilograms of nutrients per hectare.

The major regional users also import substantial volumes of their annual consumption.

The longer view



This is a global challenge for all farmers, and unfortunately, the ultimate crop yields that farmers harvest is dependent on the use of fertilisers. A reduction in fertiliser use, and the resulting negative impact on yields, has implications for the consumers across the world, particularly in poor countries where agriculture constitutes a significant share of the economy.

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