



Potash 101



Potash (K) is an essential crop nutrient, one that contributes to improving crop yields all over the world. Farmers in every major growing region know that applying potash is necessary to protect and restore their soil fertility and it's an important part of how Nutrien will feed the future.

Potassium plays an important role in the growth and development of plants by activating enzymes, enhancing photosynthesis, aiding nitrogen uptake and helping plants withstand stress. It also aids in water retention (reduced loss) by the crop.

Potassium chloride (KCl), commonly called potash, is mined from ore deposits located deep underground or extracted from salt lakes or seas. Conventional underground mines account for nearly 80 percent of global potassium chloride capacity, with underground solution mines accounting for about 6%. The remainder is obtained by harvesting natural brines from potassium-rich water bodies, typically using solar evaporation.

Potash is sold into the agricultural market primarily as solid granular and standard products. Preferred finished product choice depends on local custom, choice of application equipment, and desire to blend with other fertilizer materials.

Nutrien is the largest soft rock miner and potash producer in the world.

POTASH IS USED FOR:

Fertilizer to improve root and stem strength, water utilization and disease resistance.

Enhancing taste, color and texture of food.

Feed to aid in animal growth and milk production.

Industrial applications, including soaps, water softeners, de-icers, drilling muds and food products.



NUTRIEN'S ROLE

- Nutrien is the world's largest potash producer.
- We employ world-class technologies intended to ensure safer and more responsible mining and have a team with decades of experience in producing potash.
- With decades of high-quality reserves and our multi-year expansions complete, we are well positioned to meet the world's long-term potash needs.
- We have one of the **most reliable, safe and efficient network** of assets in the industry.

WHERE WE OPERATE

- We operate **six low-cost potash mines in Saskatchewan** which have access to the best potash geology in the world and in a stable geopolitical environment.
- Our extensive transportation and distribution network includes **four North American marine terminals, 285 distribution points** and **5,900 owned or leased railcars** to efficiently supply potash to approximately 40 countries around the world.

PERCENT OF SAMPLES TESTING BELOW CRITICAL LEVELS FOR K IN 2020

