

Potash 101

Potassium (K) is an essential nutrient for crops and other living organisms. It is an essential regulator for many plant processes and enzymes, including photosynthate transport and storage, water balance in the plant, and stress tolerance. It is taken up by plants as the potassium ion (K^+). Potassium is applied to crops via manufactured fertilizers, often collectively referred to as potash.

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 six percent. 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.



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THE BUSINESS OF CROP NUTRITION

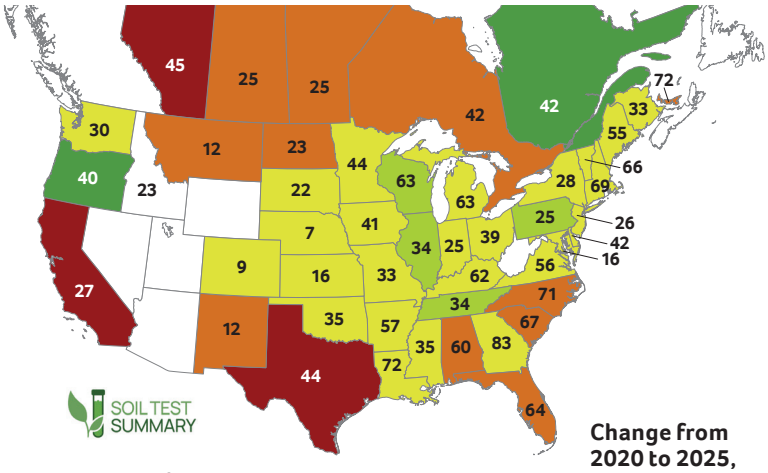
NUTRIEN'S ROLE

- **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 2025



Percent of samples testing below critical levels for potassium for major crops in 2025, and changes since 2020.

Green areas show the greatest decreases in the percentage of samples testing below critical potassium levels since 2020, while red areas show the greatest increases.

*Only states and provinces with 2,000 samples or more are shown on this map.

Change from 2020 to 2025, % Below

- > +10
- 0 to +10
- -10 to 0
- -20 to -10
- < -20
- NA



POTASH BY THE NUMBERS

20.6 Mmt Nameplate Potash Capacity	**6** Mines Situated in the Province of Saskatchewan
~5,900 Owned or Leased Railcars	**285** Distribution Points







LEARN MORE **POTASSIUM TOOLKIT**

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