otash contains potassium, a nutrient essential to life in both plants and animals. The potash found in Saskatchewan is potassium chloride (KCl), also known as sylvite or muriate of potash, which in its natural state is a pink and salty rock. More than onethird of the world's potash is mined in Canada (most of it in Saskatchewan) making it our province's "Red Gold."

Where to find a mine! NUTRIEN:

MOSAIC CANADA:

Colonsay

O Esterhazy

O Allan Cory

O Lanigan Patience Lake

Rocanville

O Vanscoy

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WHY is Parash important

ust like humans need vitamins and minerals, plants need nutrients to survive. As plants grow, they absorb these nutrients from the soil to build their roots, stalks and leaves. When plants are harvested, the nutrients are taken too – unless farmers

Fertilizer returns potassium, nitrogen and phosphorus to the soil so new plants can grow. Without fertilizer, a farmer's land would be stripped of nutrients within a few growing seasons – they couldn't grow

grow three times the amount of food on the same

O Belle Plaine K+S POTASH CANADA GP: Bethune

replace them using fertilizer.

enough food to feed the growing population of our planet, and nearly one-third of the world would Fertilizers also save the environment. Farmers can go hungry.

land that they could just 40 years ago. That means more room for parks and people.



- O The elevators at some Saskatchewan potash mines bring workers 1,000 metres below the Earth's surface almost twice the height of the CN Tower!
- The new 500,000 tonne storage facility at PotashCorp Rocanville is one of the world's largest buildings and can be seen from space. Its capacity would fill 4,854 potash railcars, stretching for 68 kilometers.
- O Mosaic Esterhazy's K3 headframe is the tallest structure between Winnipeg and Calgary.
- Because potash mines are closer to the Earth's core, the temperature inside them hovers around 27 degrees Celsius throughout the year - no matter how cold it gets outside!
- Without potash and other fertilizers, almost one-third of the world would go hungry.
- Some potash mines use a process called solution mining" which dissolves potash deep underground with water. The potash-rich brine is then extracted from the ground and the minerals are recovered from it.
- O The caverns used in solution mining are as big as football stadiums and are located 1,500 meters below the earth's surface.
- O Potash mines in Saskatchewan are like underground cities. PotashCorp's Lanigan mine, the largest in the province, has more than 850 km of roads, 60 trucks to transport workers and more than 50 km of conveyor belts.

CONTINUOUS-BORER

USED FOR: Cutting potash tunnels WEIGHT: 220 tonnes

(the weight of 40 elephants!) **CUTTING AREA DIMENSIONS:** 2.74 metres by 8.23 metres (9' by 27', about the size of

a two-car garage) CUTTING SPEED: 30 centimetres per minute PRODUCTION RATE: 580-700 tonnes per hour HORSEPOWER: Four 400 hp motors (each as strong as a race car engine!)

NUTRIENT

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O Potash is necessary for photosynthesis, the process by which green plants produce, transport and

O Potash makes plants hardy, helping them to withstand the stresses of drought, cold weather

and pests like weeds and insects. O Potash regulates more than 60 plant enzyme

systems, keeping sugars distributed and used properly and making water use efficient.



FUEL FOR THOUGHT

Potash isn't only an ingredient in fertilizer. It's also used to make computer screens, medicine...even rocket fuel!

Saskatchewan Mining Association

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