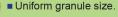


INDORAMA GRANULAR UREA

INDORAMA NEEM COATED UREA

INDORAMA NPK





Low moisture, anticaking properties, low biuret content & Free flowing.

Higher crushing strength, which prevents caking.

Standards Organization of Nigeria (SON) Certified.



- Enhances the nitrogen use efficiency and crop remain green for longer time.
- It increases crop productivity
- Protect crop from pest and diseases.
- Prevent Urea application losses by Volatilization and Leaching



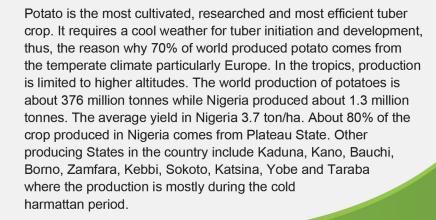
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- Indorama NPK maintains quality and have a perfect balance of nitrogen, phosphorus, and potassium.
- Nitrogen is needed for vegetative growth.
- Phosphorus is needed to produce strong roots and shoots.
- Potassium is needed to produce quality fruit and flowers, also increases resistance to diseases.
- Calcium from limestone granules helps in decreasing soil acidity.



Potato

Nigeria's Pride in Every Bite, Grown with Farmer's Love











POTATO CROP

Land Preparation and Soil Requirement

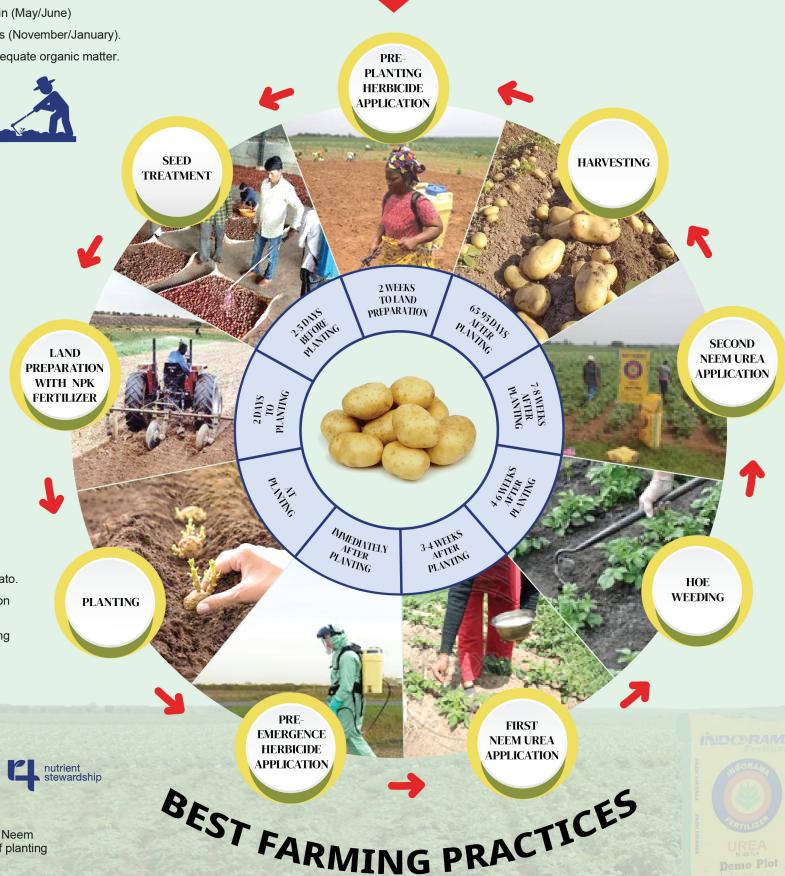
- The crop is cool weather loving and does well with temperature between 15-29 degree celcius.
- Rainy season production of potato depends on the onset of rain (May/June)
- Dry season production should coincide with the coolest months (November/January).
- Potato requires fertile soil with good moisture retention and adequate organic matter.
- The soil pH of 5.2 6.4 is optimum for cultivation of potato.
- It also requires warm or sunny weather during tuberization.
- Well distributed rainfall of about 1,000 1,500 mm is adequate for the crop.
- Pre-planting herbicide (Glyphosate at the rate of 2 L/ha) should be sprayed 2 weeks to land preparation.
- The land should be cleared and harrowed to a fine tilth.
- Ridges should be made 75 or 90cm apart.

Pre-planting Seed Treatment and Sowing

- Potato tubers should be spread in a well-ventilated room with diffused light to enhance sprouting.
- The tubers are sometimes covered with jute bags and occasionally sprinkled with water.
- The tubers are then dressed with Dithane M-45 a day to planting.
- The treated cut setts should be spread in a room for 3-4 days to allow for wound healing.
- Tubers around 35 grams should be considered for planting.
- For cut setts, larger tubers are cut into 2 or more pieces of equivalent weight (35 -50g).
- A sharp knife should be sterilized by dipping in a 95% alcohol and used for cutting the tubers.
- Each cut piece should contain 1 or more eyes (sprouts).
- Tubers should be cut at right angle to avoid apical dominance.
- Plant spacing is 30 cm for ware potato and 25 cm for seed potato.
- Tubers are planted at a depth of 8-10cm to facilitate germination and ensure that the sprouts are turned upwards.
- Shallow planting expose tubers to sunlight while deeper planting delays germination.

Fertilizer Management with 4R Nutrient Stewardship

- The crop requires 150 kg Nitrogen, 100 kg Phosphorus and 100 kg Potassium per hectare.
- About 20 numbers of 50 kg bags (1000 kg) of Indorama NPK is required for 1 hectare of land.
- The Indorama NPK should be applied during land preparation.
- Top dress with 3 numbers of 50 kg bags (150 kg) of Indorama Neem coated urea at 3-4 weeks of planting and again at 7-8 weeks of planting
- Apply the fertilizer 10 cm away from the stand and 5cm deep.
- Avoid contact of fertilizer with the seeds.



How to Reduce Fertilizer Loss

- Apply fertilizer early in the morning or in the evening time.
- Avoid fertilizer application when it is about to rain or when the weather is cloudy.
- Always apply Urea fertilizer in split doses for better efficacy.
- Side placement of fertilizer is recommended.
- Always cover applied fertilizer with soil to prevent volatilization losses.
- Apply urea fertilizer after weeding to prevent weed invasion.
- Apply only the recommended dose of fertilizer.

Weed Control

- Potato is sensitive to weed infestation which may cause yield loss of 50% or more.
- Weeds can be controlled by hand hoe weeding up to the stage when the canopy covers the space between plant stands (4 6 week's after planting).
- Herbicides like Metolachlor (0.7 kg a.i/ha), Metribuzin (0.8kg a.i/ha), can be used for weed control in potato fields.

Pest and Disease Management

- Prevalent pests and diseases of potato include potato bugs which can be controlled using insecticides such as cyhalothrin and Imidacloprid.
- Common diseases of potato include Early blight, Fusarium dry rot, pink rot and late blight.
- Diseases can be controlled by Seed treatment, field sanitation removing weak, dead and disease plants, use of improved varieties that are resistant/tolerant to pests and diseases, and the practice of crop rotation with non-host crops.
- Chemical control for Blight disease is achieved using fungicide.

Harvesting

- Potato is ready for harvest in 65 95 days depending on the variety, physiological stage of the seed tuber, day length and temperature.
- Leaves of mature crop turns yellow or dry while the stem prostrate.
- In the latter case, the haulm is killed, and the tuber remains in the soil for at least 2 weeks to allow the skin to set before harvesting.
- Tubers are harvested with the aid of hoe or hand fork with care taken not to injure the tubers and provide entry point for diseases.
- To prevent tuber rot and black heart, potatoes are best harvested early morning or late afternoons when the temperatures are low.

Indorama Fertilizer: Improving Agriculture, Improving Lives