

INDORAMA GRANULAR UREA

INDORAMA NEEM COATED UREA

INDORAMA NPK



Uniform granule size.

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



A = 10.00

- Indorama NPK maintains quality and have a perfect balance of nitrogen, phosphorus, and
- Nitrogen is needed for vegetative
- 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.

Yam

Nigeria's Bountiful Harvest, **Rooted in Tradition**

INDORAMA

Essential materials. Better lives.

Yam (Dioscorea spp) is the second most important tuber crop after cassava. It is produced on 5 million hectares in about 47 tropical and subtropical countries of the world. Yields are about 11 t/ha in the major producing countries of West Africa. More than 74.8 million tonnes of yams were produced worldwide in 2020. West and Central Africa account for about 94% of world production. According to the International Institute of Tropical Agriculture, Nigeria accounted for about 70 percent of the world production amounting to 50.1 million tonnes the world largest producer, followed by Ghana, Ivory Coast and Benin. More than 2.9 million hectares is put under vam cultivation in Nigeria. The major Yam producing states in Nigeria are Benue, Taraba, Nasarawa, Cross river, Oyo.









Land Preparation and Soil Requirement

- Yam strives best in areas with temperature between 25 and 30oC.
- It requires a well distributed rainfall between 1000 1500mm for 6 7 months.
- The soil should be deep, well drained with high fertility and organic matter content.
- Sandy loam or loamy soils are most preferred.
- Yam is grown best in pH between 5 and 7.
- Gravelly soils should be avoided because they lead to poor and distorted tuber growth.
- The land should be thoroughly ploughed and harrowed.
- Pre-planting herbicide (Glyphosate at the rate of 4 L /ha) should be sprayed 2 weeks to planting.
- The land should be made into mounds of 30 90 cm tall or ridges of 100 – 150cm apart.
- Larger mounds or ridges produce large tubers.
- · Yield is higher in mounds than in ridges.

Seed Rate and Time of Planting

- Planting is carried out in October/November (end of rainy season)
 or between February to May (beginning of rainy season)
- Yam tubers are planted whole or cut into sett.
- Seed yam for planting range between 400 – 600g for optimum yield.
- Large tubers are cut into setts of 200 400g.
- About 10,000 15,000 setts are required to plant a hectare.
- The cut setts are dressed with mixed solution of insecticide, fungicide and nematicide prepared as follows: Perfekthion (insecticide): 40 ml, Dithane M 45 (fungicide): 50 g, Basamid fumigant (nematicide): 10 g, Wood ash: 200 g, Water: 10 L.
- Dip yam seedlings meant for planting into this solution for 2 to 3 minutes, remove and air dry for 18 to 24 hours to allow the cut surface to dry before planting.

Staking

- Staking increases yield by 60% or more
- Stake the vine when it is 1m long.
- The stake should be 2 m long.
- Stakes should be firmly fixed in the soil to avoid falling due to weight or strong wind.
- A stake is enough for 2 stands but not more than three.

Fertilizer Management with 4R Nutrient Stewardship

- Before fertilizer application, it is important to ensure that the soil is moist and weed free.
- Apply fertilizer at the rate of 80 kg Nitrogen: 50kg Phosphorus: 90 kg Potassium per hectre.
- Apply 10 numbers 50 kg bags (500 kg) of Indorama NPK per hectare during land preparation.
- Top dress with 2 numbers 50 kg bags (100kg) of Indorama Neem Coated Urea at 4 weeks and 2 numbers 50kg bags (100kg) at 8 weeks after sowing.
- Apply the fertilizer 10 cm away from the crop using dibbling method.

YAM CROP





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 Indorama Neem Coated 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 nitrogen fertilizer after weeding to prevent weed invasion.
- Apply only the recommended dose of fertilizer.

Weed Control



- Hoe weeding can be done at 4 and 8 weeks after planting.
- During weeding, soil should be pulled around the yam plant to prevent exposure of tubers.
- Use Diuron as Pre emergence e.g Forceuron, Diuview, etc at 3000g/ha (100-150g/spray load)
- Use Rimsulforun as post emergence tuber force at 200-250g/ha (20g/spray load)

Pest and Diseases Management

- Prevalent insect pests of yam include leaf and tuber beetles, mealybugs and scales.
- Diseases include fungal (anthracnose, leaf spot, leaf blight, tuber rots), viral diseases, as well as nematodes.
- These pests and diseases contribute to suboptimal yields and deterioration of tuber quality in storage.
- The pest and diseases can be controlled by using healthy planting materials, field sanitation, and removal of diseased plants and application of appropriate recommended pesticides.
- Seed treatment will adequately control diseases.
- Ensure field sanitation by removing weak, dead and disease plants.
- Use improved varieties that are tolerant to pests and diseases.
- Practice crop rotation with non-host crops.

Harvesting

- Maturity is indicated by cessation of vegetative growth and yellowing of leaves.
- Yam is harvested once at end of the cropping season or twice (mid-way in the season and at the end).
- For yams that are harvested twice, the first one is called milking or pricking.
- Milking is done 5 6 months after emergence.
- In milking the tuber is severed leaving behind its head, and care should be taken to avoid too much root damage.
- The second crop or seed tubers are harvested 2 3 months after the first harvest.