

ONION PLANTING GUIDE



Onion farming in Kenya is a lucrative agricultural activity done in both large and small scale for commercial and domestic purposes. With most of the onions consumed in Kenya being imported from Tanzania, farmers can bridge this gap by cultivating onions locally. At Kenya Highland Seeds we have a portfolio of hybrid and OPV onion varieties ranging from red bulb onions, white bulb onions and bunching onions. Hybrid onions are advantageous to the farmer in that they are tolerant to most perennial diseases. Categories of onion varieties sold at Kenya Highland Seeds are as follows:

Red Bulb onions - Red pinnoy, Red Creole, Bombay Red

White bulb onions - Texas grano

Bunching onions - White Lisbon

Leeks - Italian Giant

NURSERY ESTABLISHMENT

- All onions are raised on a nursery bed before being transplanted onto the main seedbed once ready. 1acre requires an average of 1-1.8kgs of seed depending on the variety and irrigation method used.
- The plot should be prepared by digging and mixing the soil with well decomposed farmyard manure.
- For ease of nursery management practices such as weeding and irrigation, ensure the nursery bed is 1.2m wide and of a conventional length.
- Make shallow drills of 1cm - 2cm depth at a spacing of 15cm – 20cm apart. Thinly sow the seeds and cover them lightly using soil or well decomposed and fine farmyard manure.
- At this point you can drench your nursery using a bio-stimulant, fungicide and insecticide to control against early attack of soil borne diseases and pests.

Germination takes place in about 5-7 days.

- Depending on environmental conditions, irrigate your nursery in the morning hours but maintain a damp condition during the 6 weeks of seed raising in the nursery.
- On the 6th week when seedlings have 3-5 leaves trim them and apply a fungicide to prevent attacks from Downey mildew. This facilitates more root development, more plant vigor and large bulbs.
- Seedlings are ready for transplanting when they have 3-5 well formed leaves.



LAND PREPARATION

- Onions thrive well in a wide range of soils but they should be fertile and well-drained with a pH range of 6.0-7.0. Optimum temperature ranges from 15°C–30°C.
- It is advisable to till the land 2-3 weeks before transplanting and harrow 1-2 times to obtain a fine tilth suitable during onion production.
- It is advisable for farmers to implement good soil management practices such as crop rotation and fertilizer application as per the recommendations from a soil test analysis.



TRANSPLANTING

- Before lifting the seedlings, the nursery bed should be irrigated a day before to avoid root damage of the seedlings.
- The seedlings should be transplanted in rows 15-20cm apart and 8-10cm from one seedling to the other. At this spacing, the onions utilize fertilizer and manure applied efficiently which in turn makes onions mature fast and maximize yield per unit area.

NOTE: During transplanting, don't bury the onion seedlings more than 1inch into the soil.

- Continuously irrigate your onion seedlings in cases of less rainfall. One can choose to use furrow, overhead or drip irrigation. Prolonged drought periods can lead to onions splitting or formation of multiple bulbs.



HARVESTING ONIONS

- Bulb onions generally are ready for harvest 3-4months after transplanting which depends on the variety. OPVs have a longer maturity period compared to hybrids. Another key indicator is when 75% of the foliage begins to discolor, bend and dry towards the ground.



- Harvesting is done by pulling the bulbs and chopping off the dry foliage and roots followed by grading and storing the bulbs in net bags.
- Field curing is possible when temperatures are between 27°C– 30°C for about two weeks where the bulbs will have a tight neck and dry outer scales that rustle. By doing this, one will prolong shelf life by preventing moisture loss and disease attack such as bacterial rots, fusarium rots and neck rots.



Disclaimer:

Please note that the planting guides have been compiled with utmost care, but the information should be handled by the user in accordance with his own knowledge and experience of circumstances on the ground. We therefore cannot accept any liability in connection with the information on the planting guide.