KAT/PRO-I (Katumani Proso Millet 1) (Millet)

**Climatic requirements**
- Self-pollinated and grows up to 80cm tall depending on the altitude
- The panicle is open and has cream coloured grains
- Flowers in 40-50 days
- Matures in 65-80 days
- Has an average yield of 1400 kg/ha or 560kg/acre
- Has the ability to stop growing during severe water stress and resumes growth quickly when the stress is broken.
- Can be grown between sea level and 2000m

**Recommended zones**
The millet varieties grow well in agro-ecological zones IV and V of Eastern and North Eastern provinces. They also do well in the semi-arid districts of Rift valley and Western Provinces that receive about 150mm of rain per season. The varieties can be grown from 50m to 2000m above sea level

**Management/Breeding Practices**

**Land preparation**
Millets require a fine seedbed. Ploughing can be done using a hoe, tractor or oxen. Fields with big soil clods should be harrowed. Planting fields should be prepared early. Land should be ploughed immediately after harvesting the previous crop.

**Planting**
Spatial planting is recommended. Drill or plant in hills half the field before the rains and plant the other half at the onset of rains.

**Seed rate in furrows:**
- Pearl millet - 5kg/ha or 2 kg/acre
- Finger millet - 3kg/ha or 1.2 kg/acre
- Proso millet - 4kg/ha or 1.6 kg/acre

**Method of planting**
- Drill and thin 2 weeks after emergence when plants are about 6 inches tall.

**Depth of planting**
All varieties should be planted at a depth of 2 inches (5cm)

**Thinning:** Thin to one seedling per hill. This results in strong plants that produce the required yields.

**Spacing: (Sole cropping):**
- Pearl millet varieties (Kat/PM I, Kat/PM2 and KAT PM3):
  - Distance between rows - 60cm
  - Distance between plants - 15cm
  - Intercrop: Pearl millet: 120cm X 15cm and 1 row of grain legume between

- Finger millet, Foxtail and proso millet (Kat/FM-1, Kat/Pro I):
  - Distance between rows - 30cm
  - Distance between plants - 10cm

**Fertilizer Application**
All millets respond well to fertilizers. Apply 50kg per hectare of NPK (20:20:0) when necessary. Farmyard manure is recommended at 8-12 tons/ha.

**Weeding**
The first weeding should be done within 2-3 weeks after emergence and the second 2-3 weeks thereafter. In the case of Proso millet, the first weeding should be done within 2 weeks of emergence.