



**FACULTY OF AGRICULTURAL SCIENCES AND ALLIED INDUSTRIES**

## **Amaranthus (*Amaranthus sp L.*)** ***Amaranthaceae***

### **Varieties**

- Co 1 (Mulaikeerai and Thandukeerai)
- Co 2 (Mulaikeerai and Thandukeerai)
- Co 3 (Clipping)
- Co 4 (Grain)
- Co 5 (Mulaikeerai and Thandukeerai)
- **Soil**
- Well drained loamy soils with slightly acidic nature and warm climate are suitable for amaranthus cultivation.
- **Season and sowing**
- Sowing can be done throughout the year.
- **Seed rate**
- 2.5 kg/ha of seeds broadcasted evenly on the beds after mixing with 10 parts of sand.
- **Preparation of field**
- The field is prepared to a fine tilth and form beds of 2 x 1.5 m size. After germination thin the seedlings to have a spacing of 12 – 15 cm.
- **Irrigation**
- Irrigate before and after sowing and at weekly intervals after germination.
- **Application of fertilizers**
- Apply FYM 25 t/ha, *Azospirillum* 2 kg and *Phosphobacteria* 2 kg/ha, N 75 kg and K 25 kg/ha as basal dose.
- **Plant protection**

### **Pests**

#### **Leaf eating caterpillar**

- It can be controlled by spraying Carbaryl 50 WP @ 2 g/lit.
- **Diseases**
- **Leaf spot**
- Carbendazim @ 1 g/l of water. Spraying sulphur compounds should be avoided.
- **Leafy types**

- 25 days after sowing for Mulaikeerai (10 t/ha)  
40 days after sowing for Thandukeerai (16 t/ha)
- **Clipping types**  
10 clippings at weekly intervals (30 t/ha)
- **Grain types**  
Co 4: 2.4 t grains/ha + 8 tonnes of tender greens.