

Management Package for FAW in Maize



Dr. MAPWK Malawiarachchi and KNC Gunewardena
Field Crops Research and Development Institute
Mahalluppallama

OUTLINE

- **Pre-establishment practices**
- **Establishment**
- **Post-establishment practices**
- **Post-harvest practices**

Pre-establishment practices

- **Identify the farmers who cultivated maize in last season (Maha 2018/19) in a yala or preferably within AI/ASC division**
- **Educate all the farmers on the package of FAW control (Irrespective of farmers who will be cultivating maize in forthcoming yala)**
- **Harrow the fields of all these farmers with a tine tiller or rotavator just after harvesting**
- **Decide on a date of planting for the particular area (A 2 week planting window for the entire country is preferred starting from 1 May 2019)**

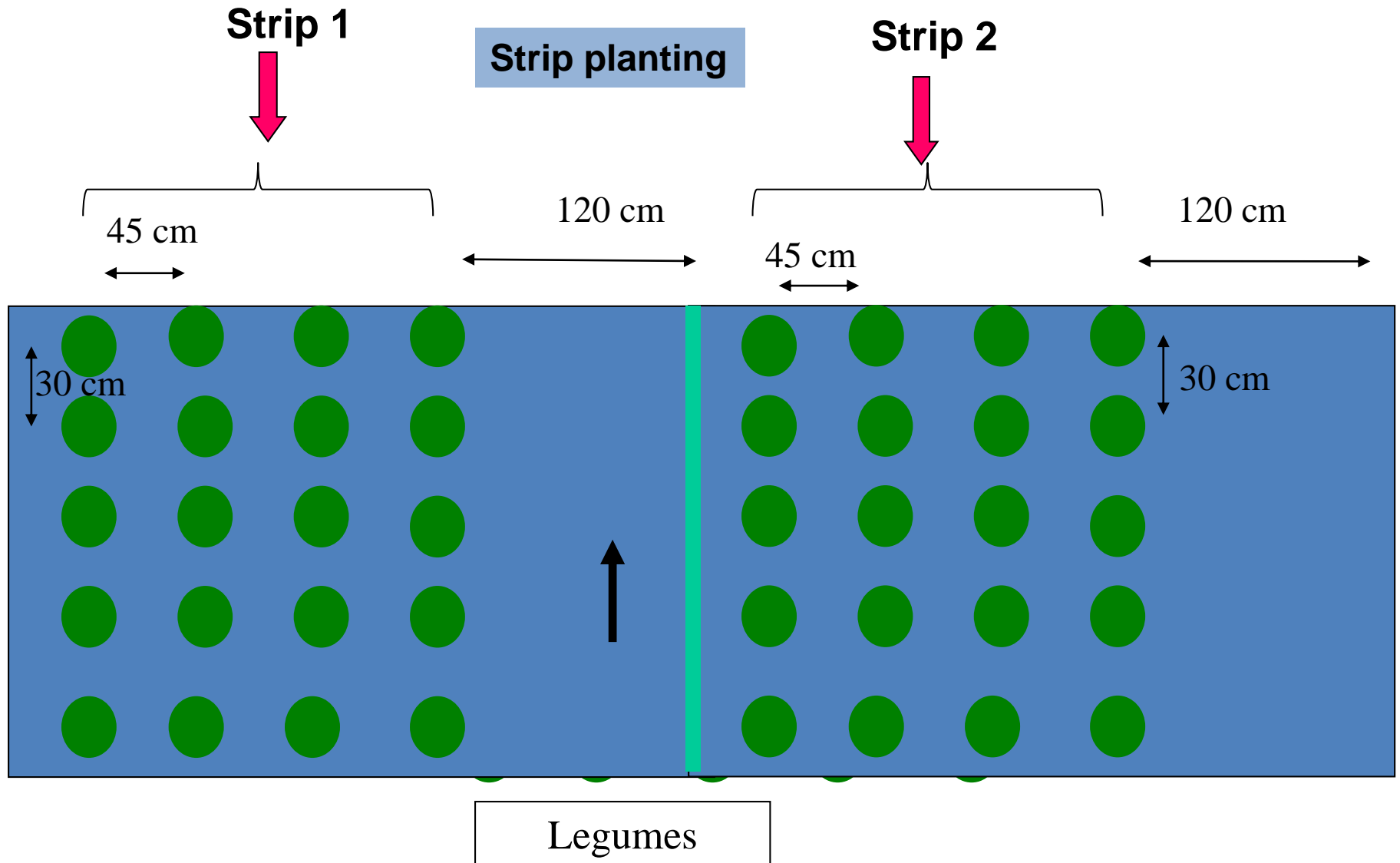
- **Advise farmers to adhere to the planting date in order to avoid scattered planting in a *yaya* / area (Those who cannot, should not go for the maize crop)**
- **Establish pheromone traps 1 month ahead of DOP (6 traps/ha)**
- **Apply organic manure (10 t/ha)**

Establishment

- **Land preparation using an appropriate implement (Disc plough / Tine tiller /Rotavator) to a depth of 15-20 cm)**
- **Follow the recommended basal fertilizer application**
 - **75 kg of Urea/ha**
 - **Soil test based P and K**
- **Seed treatment with insecticides**

Thiamethoxam 70%WS or Imidacloprid 70%WS
(Apply 3g for 1kg of seeds, mix with 5ml water and keep over night)
- **Broadcast sunhemp (20kg/ac) just after seeding and incorporate at weeding**

- Spacing and row arrangements – as strips of 4 maize rows (120 cm apart) at a spacing of 45cm X 30 cm (1 plant/hill)
- Plant Blackgram/ Cowpea/Mungbean in the space between strips



Post - establishment practices

- **Apply ash in early morning into the whorl & leaves at 2 weeks interval starting from 2WAS**
- **Apply neem seed kernel extract (rate 300-500g/ 10 l water) at 1 week interval starting from 2 WAS**
- **Inspect the fields at least twice a week and handpick and destroy egg masses and small caterpillars**
- **Inter cultivate the soil with a mamoty at 3 and 5 weeks after seeding to disturb pupal stages**
- **Apply urea 4-5 WAS at 250 kg/ha (Avoid excessive nitrogen application)**

Post - establishment practices

Common name of the Insecticide	Trade name	MOA Group	Dilution per 10 l water	Rate of Application/ ha		PHI
				Low foliage	High foliage	
Spinotoram 25%WG	Radiant	5	3 g	100 g	180g	3
Spinosad 25g/l SC	Success	5	10 ml	320 ml	600 ml	7
Emamectin benzoate 5%SG	Proclaim	6	4 g	130g	240 g	7
Chlorantraniliprole 200g/l SC	Coragen	28	3 ml	100 ml	180ml	3
Chlorantraniliprole 20 % + Thiamethoxam 20 % WG	Virtako	28+4A	2.5 g	80 ml	150g	14

- Apply insecticides alternatively at 7-10 day interval preferably in the evening with a knapsack sprayer (Do not use power sprayers)
- Do not repeat insecticides having same mode of action
- If cultivate for green cobs, use insecticides with low pre harvesting interval

Post harvest practices

- Under severe infestations, burn the crop residues just after harvesting
- Harrow the fields with a tine tiller or rotavator just after harvesting
- Do not transport infested plant materials except chopped materials/silage
- Crop rotation with sesame /legumes etc.

General

- Establish semi – perennials on the conservation bunds

(This facilitates habitat diversity for natural enemies during cropping period)

Preferable crops - Sesbenia (Kathurumurunga), Dwarf drumstick (Miti murunga), Pormaganate, Lime etc.