



## PROTOCOL FOR AMPALAYA & SQUASH USING MASINAG ORGANIC FERTILIZER

### Land Preparation

1. Select land for planting – clay loam, loam soil, and sandy loam with pH of 6-8
2. Land preparation – 2 to 3 times alternate plowing and harrowing
3. Planting – For ampalaya directly plant the seeds at 100 cm within row and 150 cm between rows in the furrow with 20 cm spacing between hill; For squash – can be planted in zero tillage (that is after rice harvest, holes are made at spacing of m between holes) or can be planted in shallow furrows at a distance of 2 m between furrows
4. Prepare 1% Masinag solution (10 ml of Masinag diluted to 1L of water) and soak the seeds For 1 hour before sowing/planting.

### Fertilizer Application

1. At Furrowing apply 20 bags Organic Fertilizer (compost) Drill the organic fertilizer along the furrows before transplanting or at the hole when using plastic mulch.
2. 10 Days After Planting (DAP) Spray 1% Masinag solution (mix 1 liter Masinag for every 100 li of water - this is equivalent to 160 ml Masinag per 16 lit capacity knapsack sprayer).
3. 15 DAP apply 4 bags; 1 bag 4 bags 14-14-14; 1 bag 0-18-0 (Apply 3 inches away from the roots of the plant).
4. 25-27 DAP Spray 1% Masinag solution (mix 1 liter Masinag for every 100 li of water - this is equivalent to 160 ml Masinag per 16 lit capacity knapsack sprayer).
5. 30-35 (DAP) apply 1 bag Urea (Apply 3 inches away from the roots of the plant)
6. 40-45 (DAP) Spray 1% Masinag solution (mix 1 liter Masinag for every 100 li of water - this is equivalent to 160 ml Masinag per 16 lit capacity knapsack sprayer).
7. 50 DAP apply ½ bag 0-0-16 (Apply 3 inches away from the roots of the plant)
8. 51 -55 (DAP) Spray 1% Masinag solution (mix 1 liter Masinag for every 100 li of water - this is equivalent to 160 ml Masinag per 16 lit capacity knapsack sprayer).
9. 56-60(DAP) Spray 1% Masinag solution (mix 1 liter Masinag for every 100 li of water - this is equivalent to 160 ml Masinag per 16 lit capacity knapsack sprayer).

**(Optional, depending on the maturity of the crop)**

- **Training & Trellising**

In ampalaya, start putting up trellis when the plants are about 15 cm high. Train the vines regularly by tying the vines on the trellis. In squash, train or re-orient the vines every along the rows 25 days after planting to facilitate watering and weeding in the field.

- **Harvesting**

Harvest starts 60-75 Days after Emergence for Ampalaya while in squash fruits mature in 50 -60 days from fruit setting