

Application Guide for Various High Value Crops Using Masinag Organic Fertilizer

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Application Guide for Coffee Production Using Masinag Organic Fertilizer

Land Area: 1 hectare

Nursery

- a. Mix 100 sacks of chicken manure with 1 ton of soil.
- b. Put the soil medium into the seedling trays.
- c. A day before seeding, water the soil on trays with 1% Masinag solution (1L of Masinag diluted to 100L of water).
- d. Plant 1-2 seeds per hole.
- e. Water seedlings with 1% Masinag solution (1L of Masinag diluted to 100L of water) once a month up to transplanting.

Transplanting

- a. On the hole of the hill prepared for planting, put a scoop of chicken manure or compost.
- b. A day before transplanting, water the hole with 1% Masinag solution (1L of Masinag diluted to 100L of water).
- c. Water the plant with 1% Masinag solution (1L of Masinag diluted to 100L of water) once a month.

Flowering and Fruiting

- a. Spray 1% Masinag solution (1L of Masinag diluted to 100L of water) to the leaves and trunks of the tree.
- b. Do spraying once a month.
- c. During flowering stage, stop spraying with Masinag solution.
- d. Once the fruit occurs, spray with 1% Masinag solution (1L of Masinag diluted to 100L of water) once.
- e. Wait for the harvest.

Application Guide for Mango Trees

Using Masinag Organic Fertilizer

Cultural Management

- a. Prune over-crowded branches to allow entry and distribution of sunlight.

Foliar Application

- a. Spray Masinag solution at 5:200 dilution (5L of Masinag diluted to 200L of water) to induce flowering/blooming.
- b. 12 days after spraying the flower inducer, spray 1% Masinag-Hermosa solution (1L of Masinag and 1L of Hermosa diluted to 200L of water) directly to the leaves, branches and roots.
- c. 3 days after flowering (early fruiting stage), spray 1% Masinag-Hermosa solution (1L of Masinag and 1L of Hermosa diluted to 200L of water) directly to the leaves, branches and roots.
- d. Spray 1% Masinag-Hermosa solution (1L of Masinag and 1L of Hermosa diluted to 200L of water) directly to the leaves, branches and roots with 15 days interval up to the 45th day.
- e. Spray 1% Masinag-Hermosa solution (1L of Masinag and 1L of Hermosa diluted to 200L of water) on the 80-90-day old fruits to increase the size of the fruits, latex removal and disinfection.

Harvesting

- a. Soak harvested mango fruits in 1% Hermosa solution (100ml of Hermosa diluted to 16L of water) to remove latex and disinfection.

Post-harvest Management

- a. Spray 1% Masinag-Hermosa solution (1L of Masinag and 1L of Hermosa diluted to 200L of water) directly to the leaves, branches and roots after harvest to replenish nutrients.

Recommendation

- a. No removal of small fruits
- b. No pesticide used
- c. No wrapping of fruits

Note: Wait for a bountiful harvest of sweet mangoes.

Application Guide for Watermelon (Direct Seeding)

Using Masinag Organic Fertilizer

Land Area: 1 hectare

Climate Requirement

Watermelon grows best when the monthly average temperature is about 21oC to 29oC.

Planting Season

- On-season planting is on the month of October to January.
- Off-season planting is early August.

Land Preparation

- a. For 1 hectare, broadcast 20 bags of chicken manure or compost on the field before plowing. (It is better to put the compost on the holes before planting.)
- b. Plow the field properly to increase soil aeration. Plow and harrow the field 2-3 times for early growth and development. These are done 3 weeks prior to planting to condition the soil.
- c. Level the soil. Build furrows that are 2m apart.
- d. Spray the field with 1% Masinag solution (1L of Masinag diluted to 100L of water).

Planting

- a. Prepare a 1% Masinag solution (10ml of Masinag diluted to 1L of water).
- b. Soak the seeds on the prepared solution for 30 minutes.
- c. Plant 2-3 seeds per hill at a depth of 2.5cm. Planting distance ranges from 1.5m x 1.5m to 2.5m x 2.5m apart, depending on variety.

Nutrient Management

- a. 10-15 days after emergence (DAE,) thin to one plant per hill and spray 1% Masinag solution 1L of Masinag diluted to 100L of water) directly to the leaves and soil.
- b. 20 DAE, spray 1% Masinag solution 1L of Masinag diluted to 100L of water) directly to the leaves and soil.
- c. 25 DAE, spray 1% Masinag solution 1L of Masinag diluted to 100L of water) directly to the leaves and soil then apply 10 kilos of complete fertilizer (14-14-14).
- d. 30 DAE, spray 1% Masinag solution 1L of Masinag diluted to 100L of water) directly to the soil.e. 35 DAE, spray 1% Masinag solution 1L of Masinag diluted to 100L of water) directly to the soil.

Other Cultural Management

Irrigation

- a. Frequent high irrigation about 10-15 times is recommended at plantingtime, vegetative, flowering and fruiting development stage.
- b. Do not allow the fruits to get wet while irrigating.
- c. Two weeks prior to maturity, irrigation should be stopped.

Training of Vines

- a. Rearrange or train the vines along the rows 25 days after planting to facilitate watering and weeding but main vines should not be touched anymore.

Fruit Thinning

- a. Removal of misshapen fruits.
- b. Suggested thinning of 2 fruits per vines on variety that produces large-sized fruits and 4-6 in the case of small-fruited varieties are used. It is done when the largest fruit is 10cm long and 10cm in diameter.

Harvesting

It takes a watermelon to mature from 35 to 45 days after pollination. Harvest indexes could be used:

- a. Tapping – a dull or hollow sound is an indication of maturity
- b. Color - fruit part resting on the ground becomes a distinct yellow patch as in sugar baby.
- c. Tendril right behind each fruit dried down up to the base.

Application Guide for Watermelon (Transplanted)

Using Masinag Organic Fertilizer

Land Area: 1 hectare

Climatic Requirement

Watermelon grows best when the monthly average temperature is about 21oC to 29oC.

Planting Season

- On-season planting is on the month of October to January.
- Off-season planting is early August.

Land Preparation

- a. For 1 hectare, broadcast 20 bags of chicken manure or compost on the field before plowing. (It is better to put the compost on the holes before planting.)
- b. Plow the field properly to increase soil aeration. Plow and harrow the field 2-3 times for early growth and development. These are done 3 weeks prior to planting to condition the soil.
- c. Level the soil. Build furrows that are 2m apart.
- d. Spray the field with 1% Masinag solution (1L of Masinag diluted to 100L of water).

Transplanting

- a. Prepare 1% Masinag solution (10ml of Masinag diluted to 1L of water).
- b. Soak the seeds on the prepared solution for 30 minutes. Set aside the solution.
- c. Drop 2-3 grains of complete fertilizer (14-14-14) on each hole before filling it with the required soil mixture. (Mix the garden soil, fine sand and compost at the ratio of 3:1:1.)
- d. Spray the solution (used in soaking) on the seedling tray before planting.
- e. Plant the seeds singly in each hole of the seedling tray.
- f. Transplant a 21-25 day-old seedling with a planting distance ranges from 1.5m x 1.5m to 2.5m x 2.5m apart, depending on variety.

Nutrient Management

- a. 5 days after transplanting (DAT), spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the leaves and soil then apply 10 kilos of complete fertilizer (14-14-14).
- b. 10 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the leaves and soil.
- c. 15 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the leaves and soil.
- d. 20 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the soil.
- e. 25 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the soil.

Other Cultural Management

Irrigation

- a. Frequent high irrigation about 10-15 times is recommended at planting time, vegetative, flowering and fruiting development stage.
- b. Do not allow the fruits to get wet while irrigating.
- c. Two weeks prior to maturity, irrigation should be stopped.

Training of Vines

- a. Rearrange or train the vines along the rows 25 days after planting to facilitate watering and weeding but main vines should not be touched anymore.

Fruit Thinning

- a. Removal of misshapen fruits.
- b. Suggested thinning of 2 fruits per vines on variety that produces large-sized fruits and 4-6 in the case of small-fruited varieties are used. It is done when the largest fruit is 10cm long and 10cm in diameter.

Harvesting

It takes a watermelon to mature from 35 to 45 days after pollination. Harvest indexes could be used:

- a. Tapping – a dull or hollow sound is an indication of maturity
- b. Color - fruit part resting on the ground becomes a distinct yellow patch as in sugar baby.
- c. Tendril right behind each fruit dried down up to the base.

Application Guide for Sweet Pepper Using Masinag Organic Fertilizer

Land Area: 1 hectare

Climatic and Soil Requirements

Sweet pepper requires cool weather for best fruit quality.

Planting season:

- a. low elevations - October to December
- b. mid and high elevations - can be grown throughout the year.

Land Preparation

- a. For 1 hectare, broadcast 20 bags of chicken manure or organic compost in the field before plowing.
- b. Plow once and harrow field 2-3 times at 5-7 days interval.
- c. Level the soil.
- d. Build furrows 50-75cm apart for single row planting.
- e. Spray 1% Masinag solution (1L of Masinag diluted to 100L of water) within the furrows before planting and apply 5-7 bags of complete fertilizer (14-14-14).

Seed Preparation

- a. Prepare 1% Masinag solution (10ml of Masinag diluted to 1L of water).
- b. Soak the seeds on the prepared solution for 10 minutes. Set aside solution.
- c. Prepare seed beds by incorporating 2-4 kg of manure and 1-2 kg carbonized rice hull/m². Spray it with Masinag solution used in soaking.
- d. Prepare 1m wide beds at any convenient length.
- e. 5 days after seed emergence (DAE), spray 1% Masinag solution (1L of Masinag) diluted to 100L of water) directly to leaves and soil.

Planting

- a. Transplant 3-4 week old seedlings at a spacing of 30-50cm between hills.

Mulching

- a. Use mulch to control weeds and promote better growth. Rice hull, rice straw or plastic may be used.
- b. In the case of the latter, make beds 1m wide and incorporate the required manure and fertilizer.c. Spread the mulch, covering the sides with soil. Make holes that are 50 x 50cm apart.

Nutrient Management

- a. 5 days after transplanting (DAT), spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the leaves and soil.

- b. 20 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the leaves and soil.
- c. 35 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the leaves and soil.
- d. 50 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the soil and apply 10 kilos of complete fertilizer (14-14-14).
- e. 65 DAT, spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly to the soil.

Harvesting

- a. Start harvesting at 80-100 days from transplanting or 3-6 weeks after flowering. Harvest mature green fruits.

Application Guide for Onion, Garlic and Ginger Production Using Masinag Organic Fertilizer

Land area: 1 hectare

Land Preparation

- a. Plow the soil properly to avoid unwanted plants.
- b. After a week, clear the land by harrowing.
- c. 5 days before planting, broadcast 20 sacks of chicken manure or compost or 1 sack of complete fertilizer (14-14-14).
- d. A day before planting, spray the soil with 1% Masinag solution (1L of Masinag diluted to 100L of water).

Seedling Preparation

- a. Prepare 1% Masinag solution (10ml of Masinag diluted to 1L of water).
- b. Soak the onion seeds (garlic/ginger bits) for 10 minutes before planting.
- c. Prepare 1% Masinag solution (1L of Masinag diluted to 100L of water). Spray it to the soil medium in the seedling tray.

Planting

- a. Plant 1-2 seeds per hole then spray it with 1% Masinag solution (1L of Masinag diluted to 100L of water).
- b. Transplant a 7-day old seedling. Spray it with 1% Masinag solution (1L of Masinag diluted to 100L of water).

Nutrient Management

- a. Spray 1% Masinag solution (1L of Masinag diluted to 100L of water) directly on leaves and soil. Do this twice a month.

Note: Wait for the bountiful harvest. You may opt to do direct seeding.