



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN

7th July, 2017

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017) Observed mainly cloudy to overcast sky and 63.4 mm rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 °C and minimum temperature range of 22.1 to 22.7 °C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Thoubal (8th to 12th July, 2017) Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 27 - 33 °C & minimum temp. 22-23 °C. Relative humidity may reach up to 99 % (max RH) & 97 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/ plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Humicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



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Manipur Centre, Lamphelpat, Imphal - 795 004

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		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

SMS:

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RC Maniphou-12 gi louhon dry bed method touraga hunbiraga
August 15 faobada louhon thadokpiba yani. Maru oina direct seeded
thanaba RC Maniphou-7 gi maton thoklakpa houraba maruda Humicil
totpiraga thabiba yai.

(I. Meghachandra Singh)
Scientist i/c, GKMS



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MANIPUR BULLETIN

7th July, 2017

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017) Observed mainly cloudy to overcast sky and 63.4 mm rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 °C and minimum temperature range of 22.1 to 22.7 °C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Churachandpur (8th to 12th July, 2017) Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 28 - 33 °C & minimum temp. 24 °C. Relative humidity may reach up to 100 % (max RH) & 98 % (min RH). The average wind speed may be 2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/ plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Hemicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



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Manipur Centre, Lamphelpat, Imphal - 795 004

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		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

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MANIPUR BULLETIN

7th July, 2017

Imphal East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017) Observed mainly cloudy to overcast sky and 63.4 mm rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 °C and minimum temperature range of 22.1 to 22.7 °C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Imphal East (8th to 12th July, 2017) Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 28 - 33 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 99 % (max RH) & 96 % (min RH). The average wind speed may be 2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Hemicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



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		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

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**MANIPUR BULLETIN****7th July, 2017****Imphal West**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

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Weather forecast for next five days of Imphal West (8th to 12th July, 2017)

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SMS:

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RC Maniphou-12 gi louhon dry bed method touraga hunbiraga
August 15 faobada louhon thadokpiba yani. Maru oina direct seeded
thanaba RC Maniphou-7 gi maton thoklakpa houraba maruda Humicil
totpiraga thabiba yai.

(I. Meghachandra Singh)
Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN

7th July, 2017

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017) Observed mainly cloudy to overcast sky and 63.4 mm rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 °C and minimum temperature range of 22.1 to 22.7 °C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Senapati (8th to 12th July, 2017) Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 28 - 34 °C & minimum temp. 22-23 °C. Relative humidity may reach up to 98 % (max RH) & 92 % (min RH). The average wind speed may be 2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Humicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

SMS:

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August 15 faobada louhon thadokpiba yani. Maru oina direct seeded
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(I. Meghachandra Singh)
Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****7th July, 2017****Tamenglong**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017)

Observed mainly cloudy to overcast sky and **63.4 mm** rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 °C and minimum temperature range of 22.1 to 22.7 °C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (8th to 12th July, 2017)

Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 28 - 33 °C & minimum temp. 23-24 °C. Relative humidity may reach up to 99 % (max RH) & 96 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Humicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

SMS:

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thanaba RC Maniphou-7 gi maton thoklakpa houraba maruda Humicil
totpiraga thabiba yai.

(I. Meghachandra Singh)
Scientist i/c, GKMS



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN

7th July, 2017

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017) Observed mainly cloudy to overcast sky and 63.4 mm rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 ° C and minimum temperature range of 22.1 to 22.7 ° C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Thoubal (8th to 12th July, 2017) Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 28 - 33 ° C & minimum temp. 23-24 ° C. Relative humidity may reach up to 99 % (max RH) & 98 % (min RH). The average wind speed may be 2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/ plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Humicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
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Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN

7th July, 2017

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
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		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
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		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
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ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”



		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
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Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

SMS:

Lakliba Leibakpokpa faobada mafam kharada nong kanna chuba yai.
RC Maniphou-12 gi louhon dry bed method touraga hunbiraga
August 15 faobada louhon thadokpiba yani. Maru oina direct seeded
thanaba RC Maniphou-7 gi maton thoklakpa houraba maruda Humicil
totpiraga thabiba yai.

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ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



MANIPUR BULLETIN

7th July, 2017

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 8th to 12th July, 2017 as below:

<p>Significant past weather for the preceding bi-weekly of Imphal - West (4th to 6th July, 2017) Observed mainly cloudy to overcast sky and 63.4 mm rainfall was recorded during past three days. Maximum temperature range of 27.0 to 29.4 ° C and minimum temperature range of 22.1 to 22.7 ° C with mean relative humidity 94 % max and 80.3 % min was recorded in the past three days.</p>	<p>Weather forecast for next five days of Bishnupur (8th to 12th July, 2017) Likely to have heavy rainfall at isolated places over Manipur upto Tuesday with mainly cloudy to overcast sky and maximum temp. 28 - 34 ° C & minimum temp. 23-24 ° C. Relative humidity may reach up to 99 % (max RH) & 98 % (min RH). The average wind speed may be 2 km/hr.</p>
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Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow. - Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation and transplanting (kharif rice)		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling. - Land preparation of main field may be started for transplanting rice seedling. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling. - After rains, uproot seedlings at 25 to 35 days after sowing depending on availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be required for transplanting one ha area.
		Case worm and thrips	Seedling may be raised within this week using dry bed method with RC Maniphou-12 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/ plot. Apply Lambdacythothrin @ 15ml/ 15 litres of water.
	Direct seeding with drum seeder		- Recommended rice var. RC Maniphou-7. - Treat seed with Humicil @ 5ml/kg seed. - Puddle the field and level properly. - Drain out water 24 hrs before sowing. - Use just pre-germinated seeds.
Maize	Vegetative		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains.
Soybean / Groundnut	Vegetative & late sowing		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - Late sowing may be done upto mid of July.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars. - Late sowing may be done.
Seeds storage	Post harvest management		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water after rains.
			After rains, weeding and inter-culture operation may be done and apply 100 Kg Urea and 300 Kg SSP per hectare at 2-3 months after planting.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mencozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @ 1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb@ 2 mg/ lit of water.



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		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon/ Litchi	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
Tree bean	Transplanting/ Fertilizer application		One year or more than a year old quality seedling may be transplanted in the pit. Recommended spacing is 10x10 m from plant to plant and row to row At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5 ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit. For 7 yrs and above and for bearing plants apply 7 kg FYM, 120 Kg urea, 300 gm SSP, 80 gm MOP, 1 Kg lime should be applied.

Fishery:

* Encircle pond with happa net or raise the pond dyke height to avoid escape of fishes.

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Seed production		Maintain good quality water having p ^H 7-8, Dissolved Oxygen: 5-8ppm; CO ₂ : Nil – 0.3ppm and alkalinity 70-110 ppm.
Hatcheries		water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

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