

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

4th 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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(30^{th} June to 3^{rd} July, 2017)$

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (5th to 9th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 28 - 33 °C & minimum temp. 23 - 24 °C. Relative humidity may reach up to 100 % (max RH) & 98 % (min RH). The average wind speed may be 2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Time of the crop	Maturity to harvesting	T est ward disouse	- Rice can be harvested after rains when 80% of panicles turn hard & golden
	(Pre-kharif rice)		yellow.
	(Pre-knarii rice)		- Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation for transplanting		- 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.
Rice	(kharif rice)		 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. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
	with drum seeder		- Prain 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.
Maize	vegetative		- At knee neight stage, apply trea & 43 kg Orea ha after fams.
Soybean /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
			- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> 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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least 15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/ Fertilizer		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



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	application		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.
Animal Sciences			
* Provide clean drinkii	ng water for birds ar	nd animals.	
- Apply Himax ointment	t twice daily on anima	al body to prevent bite of	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and	Agro-meteorological advisories
		Management	
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Turkey/ Duck)			day with half the dose at regular interval of 3 weeks.
			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	A 11	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the young	Vaccination	- Vaccinate against FMD.
1.8	ones	Management	- Provide adequate amount of wholesome water (drinking).
			- Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
	ones		kg body weight.
Cattle		Slush & Flood	Provide wholesome water.
		Management	Adequate arrangements for the animals to be kept at the safety place be made.
			Avoid grazing at the periphery of flood.
		Milk fever in Milch	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
		cow	

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-	Pond and water	Maintain minimum depth of 1.5 m.
•	out		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
			1hatcheries. 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

4th 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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th June to 3rd July, 2017)

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong $(5^{th}$ to 9^{th} July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 29 - 33 °C & minimum temp. 23 °C. Relative humidity may reach up to 100 % (max RH) & 99 % (min RH). The average wind speed may be 2 km/hr.

Field Crops	~	T =	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity to		- Rice can be harvested after rains when 80% of panicles turn hard $\&$ golden
	harvesting		yellow.
	(Pre-kharif rice)		- Over maturity should be avoided to reduce shattering losses.
			- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
	Nursery to land		- Land preparation of main field may be started for transplanting rice seedling.
	preparation for		Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final
	transplanting		leveling.
Rice	(kharif rice)		- 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.
			- Seedling of Main season rice can be raised upto first week of July and can be
			transplanted within 3 rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
			- 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 /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
			- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
			- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage	management		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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least
			15 days after spraying. Avoid water stagnation.
Orange/Lime/	DI	T . 1 1	
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.
Tree bean	Transplanting/		One year or more than a year old quality seedling may be transplanted in the pit.
	Fertilizer		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



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	application		ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit.
	11		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.
Animal Sciences			
* Provide clean drink			
- Apply Himax ointmen	nt twice daily on anima	al body to prevent bite of	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and	Agro-meteorological advisories
		Management	
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Turkey/ Duck)			day with half the dose at regular interval of 3 weeks.
			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups except the young	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig		Vaccination	- Vaccinate against FMD.
	ones	Management	- Provide adequate amount of wholesome water (drinking).
			- Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
	ones		kg body weight.
Cattle		Slush & Flood	Provide wholesome water.
		Management	Adequate arrangements for the animals to be kept at the safety place be made.
			Avoid grazing at the periphery of flood.
		Milk fever in Milch	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
		cow	

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-	Pond and water	Maintain minimum depth of 1.5 m.
	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



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Thoubal

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Weather forecast for next five days of Thoubal (5th to 9th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 27 - 32 $^{\circ}$ C & minimum temp. 24 - 25 $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & 97 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Time of the crop	Maturity to harvesting	T est ward disouse	- Rice can be harvested after rains when 80% of panicles turn hard & golden
	(Pre-kharif rice)		yellow.
	(Pre-knarii rice)		- Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation for transplanting		- 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.
Rice	(kharif rice)		 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. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
	with drum seeder		- Prain 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.
Maize	vegetative		- At knee neight stage, apply trea & 43 kg Orea ha after fams.
Soybean /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
			- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> 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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least 15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/ Fertilizer		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



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			gm SSP, 80 gm MOP, 1 Kg lime should be applied.
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Name of bird/ animal	Stage	Disease and	Agro-meteorological advisories
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Poultry (Chicken/		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Turkey/ Duck)			day with half the dose at regular interval of 3 weeks.
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Cattle		Slush & Flood	Provide wholesome water.
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Fishery:

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Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-	Pond and water	Maintain minimum depth of 1.5 m.
•	out		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
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Ukhrul

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Groundnut			after rain.
D1 1 0	***		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
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			gm SSP, 80 gm MOP, 1 Kg lime should be applied.
Animal Sciences			
* Provide clean drink			
- Apply Himax ointmen	nt twice daily on anima	al body to prevent bite of	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the young	Vaccination	- Vaccinate against FMD.
1 ig	ones	Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

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-	Pond and water	Maintain minimum depth of 1.5 m.
-	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

4th 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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th June to 3rd July, 2017)

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Imphal East (5th to 9th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 28 - 33 $^{\circ}$ C & minimum temp. 22 - 24 $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & 97 % (min RH). The average wind speed may be 2 km/hr.

Field Crops		_	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow.
	(The kharif fice)		- Over maturity should be avoided to reduce shattering losses.
Rice	Nursery to land preparation for 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. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
			- 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 /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
D1 1 0	**************************************		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> 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		1	
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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least 15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/ Fertilizer		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



Manipur Centre, Lamphelpat, Imphal - 795 004





	application		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.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
- Apply Himax ointmen	nt twice daily on anima	al body to prevent bite of	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups except the young ones	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia		Vaccination	- Vaccinate against FMD.
Pig		Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
Cattle	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

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-	Pond and water	Maintain minimum depth of 1.5 m.
•	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

4th 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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th June to 3rd July, 2017)

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Imphal West (5th to 9th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 29 - 32 $^{\circ}$ C & minimum temp. 22 - 23 $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & (81-100) % (min RH). The average wind speed may be 0 - 2 km/hr.

Field Crops		_	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow.
	(1 IC-KHAITI TICC)		- Over maturity should be avoided to reduce shattering losses.
Rice	Nursery to land preparation for 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. - Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
			- 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 /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
D1 1 0	**************************************		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> 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		1	
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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least 15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/ Fertilizer		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



Manipur Centre, Lamphelpat, Imphal - 795 004





	application		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.
Animal Sciences			
* Provide clean drinki	ing water for birds a	nd animals.	
- Apply Himax ointmer	nt twice daily on anima		•
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia	All age groups except the young	Vaccination	- Vaccinate against FMD.
Pig	ones	Management	- Provide adequate amount of wholesome water (drinking) Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
Cattle	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

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-	Pond and water	Maintain minimum depth of 1.5 m.
•	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

4th 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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(30^{th} June to 3^{rd} July, 2017)$

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (5th to 9th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 27 - 33 °C & minimum temp. 23 - 25 °C. Relative humidity may reach up to 100 % (max RH) & 98 % (min RH). The average wind speed may be 2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity to		- Rice can be harvested after rains when 80% of panicles turn hard & golden
	harvesting		yellow.
	(Pre-kharif rice)		- Over maturity should be avoided to reduce shattering losses.
			- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
	Nursery to land		- Land preparation of main field may be started for transplanting rice seedling.
	preparation for		Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final
	transplanting		leveling.
D.	(kharif rice)		- After rains, uproot seedlings at 25 to 35 days after sowing depending on
Rice	(Kilaili lice)		availability of water. About 1200 to 1300 bundles of seedlings (40cm diameter)
			may be required for transplanting one ha area.
			- Seedling of Main season rice can be raised upto first week of July and can be
			transplanted within 3 rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
	with drum seeder		- Fund the field property and level it 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.
Maize	vegetative		- At knee neight stage, apply thea @ 45 kg Orea/ ha after rams.
Soybean /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
			- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram &	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Rice bean			- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	Post harvest		drying of seeds along with charcoal at 80:20. Check for moisture content or
Coods stances			weight of charcoal and dry if required.
Seeds storage	management		- For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops		1	<u>,</u>
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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least
1 assion if the	Truiting		15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/		One year or more than a year old quality seedling may be transplanted in the pit.
1100 Douit	Fertilizer		Recommended spacing is 10x10 m from plant to plant and row to row
	refulizer		At the time of planting apply 5 kg FYM + 30 gm lime+30 gm linden 5% dust + 5



Manipur Centre, Lamphelpat, Imphal - 795 004





	application		ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit.
	иррисанон		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.
Animal Sciences		1	<u> </u>
* Provide clean drink	ing water for hinds o	nd animala	
		al body to prevent bite of	of fly and macquitoss
Name of bird/ animal		Disease and	Agro-meteorological advisories
Name of bird/ animal	Stage	Management	ŭ ŭ
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups except the young	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig		Vaccination	- Vaccinate against FMD.
rig	ones	Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle	1	Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

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-	Pond and water	Maintain minimum depth of 1.5 m.
-	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

4th July, 2017

Chandel

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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th June to 3rd July, 2017)

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Chandel (5th to 9th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 28 - 35 $^{\circ}$ C & minimum temp. 24 - 25 $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & 98 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops		_	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity to harvesting (Pre-kharif rice)		- Rice can be harvested after rains when 80% of panicles turn hard & golden yellow.
	(1 Te kharif fice)		- Over maturity should be avoided to reduce shattering losses.
Rice	Nursery to land preparation for 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. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
			- 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 /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
D1 1 0	**************************************		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> 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		1	
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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least 15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/ Fertilizer		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



Manipur Centre, Lamphelpat, Imphal - 795 004





	application		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.
Animal Sciences			
* Provide clean drinkii	ng water for birds ar	nd animals.	
- Apply Himax ointment	t twice daily on anima	al body to prevent bite of	of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and	Agro-meteorological advisories
		Management	
	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
Turkey/ Duck)			day with half the dose at regular interval of 3 weeks.
			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the young	Vaccination	- Vaccinate against FMD.
1.8	ones	Management	- Provide adequate amount of wholesome water (drinking).
			- Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
	ones		kg body weight.
Cattle		Slush & Flood	Provide wholesome water.
		Management	Adequate arrangements for the animals to be kept at the safety place be made.
			Avoid grazing at the periphery of flood.
		Milk fever in Milch	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
		cow	

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-	Pond and water	Maintain minimum depth of 1.5 m.
•	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

4th 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 5th to 9th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (30th June to 3rd July, 2017)

Observed mainly cloudy to overcast sky and **6.3 mm** rainfall was recorded during past three days. Maximum temperature range of 28.8 to 31.2 $^{\circ}$ C and minimum temperature range of 22.3 to 24.6 $^{\circ}$ C with mean relative humidity 91.66 % max and 71.33 % min was recorded in the past three days.

Weather forecast for next five days of Churachandpur $(5^{th}\ to\ 9^{th}\ July,\ 2017)$

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Thursday and moderate rainfall thereafter with overcast sky and maximum temp. 26 - 32 $^{\circ}$ C & minimum temp. 24 - 25 $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & 99 % (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.
	(1 IC-KHAITI TICC)		- Over maturity should be avoided to reduce shattering losses.
	Nursery to land preparation for 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. Seedling of Main season rice can be raised upto first week of July and can be transplanted within 3rd week of July.
	Direct seeding		- Treat seed treatment with Humicil @ 5ml/kg seed.
	with drum seeder		- Puddle the field properly and level it.
			- 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 /	Vegetative		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut			after rain.
D1 1 0	**************************************		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> 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	-1		
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		Spray Malathion @ 5 ml/lit of water to control fruit fly. Harvest the fruits at least 15 days after spraying. Avoid water stagnation.
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.
Tree bean	Transplanting/ Fertilizer		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



Manipur Centre, Lamphelpat, Imphal - 795 004





	application		ml Chlorpyriphos 20 EC + 1.5 g Mancozeb + Carbendazim per pit.
	11		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.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
 Apply Himax ointmer 	nt twice daily on anima		of fly and mosquitoes.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	All age groups except the young ones	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig		Vaccination	- Vaccinate against FMD.
rig		Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
Cattle	All age groups excepts the young ones	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
		Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Slush & Flood Management	Provide wholesome water. Adequate arrangements for the animals to be kept at the safety place be made. Avoid grazing at the periphery of flood.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

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-	Pond and water	Maintain minimum depth of 1.5 m.
-	out		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
			1hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed
			should not be given for 3 days.