

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th June, 2017

<u>Bishnupur</u>

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 1st to 5th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(27^{th}$ to 29^{th} June, 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 (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. 29 - 30 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 99 % (max RH) & 89 % (min RH). The average wind speed may be 0 - 4 km/hr.

Field Crops		T	7
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity		- Drain out water completely from field approximately fifteen days before
	(Pre-kharif rice)		harvesting.
	Nursery to land		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
	preparation for		- Land preparation of main field may be started for transplanting rice seedling.
	transplanting		Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final
	(kharif rice)		leveling.
7.1			- Uproot seedlings at 25 to 35 days after sowing depending on availability of
Rice			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		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha.
			- At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean /	Vegetative to		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut	sowing (if not		after rain.
	done		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram &	Sowing to		- Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice bean	vegetative		- Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha.
			- Sow by dibbling (row to row spacing of 45cm).
			- 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
Seeds storage	management		weight of charcoal and dry if required.
8			- For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			J.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		- After the wet spell, earthing up may be done in 45-50 days old plants and top
Colocusia	8		dress with 25 kg DAP/ sangam.
			- As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of
			water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after
			the wet spell.
Cowpea	Vegetative to pre-		Avoid water logging in and around the crop field.
Compen	flowering		Weeding may be after rains.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks
Ginger, Turineric	, 585		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.
T	E '.'		
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
		paste or Benlate after the wet spell.
		<u> </u>
ng water for birds a	nd animals.	
		of fly and mosquitoes.
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.
	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.
All age groups	Vaccination	- Sheep should be vaccinated against B.Q.
	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
0 0 1	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. & H.S.
excepts the young	Deworming	Deworm with Tolzan- F
ones	Management	Provide wholesome water.
		Protection from high temp may be ensured.
		Electrolytes in the form of powder/ liquid may be given.
		➤ Increase salt level in feed.
	All age groups except the young ones All age groups excepts the young	ng water for birds and animals. t twice daily on animal body to prevent bite Stage Disease and Management All age groups All age groups All age groups All age groups except the young ones All age groups All age groups except the young ones B.Q. & H.S. Deworming

^{*} 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.
1	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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



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MANIPUR BULLETIN

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Chandel

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Weather forecast for next five days of Chandel (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. 29 - 30 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 98 % (max RH) & 89 % (min RH). The average wind speed may be 4 - 6 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
Rice	Nursery to land preparation for transplanting (kharif rice) Direct seeding		 - 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. - 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. - 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		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean / Groundnut	Vegetative to sowing (if not done		 - 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.
Blackgram & Rice bean	Sowing to vegetative		 Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. Avoid sowing in water logged fields.
Rice bean	Vegetative		Seed rate: 20 kg/ha.Sow by dibbling (row to row spacing of 45cm).
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
Colocasia	Vegetative		 After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
Cowpea	Vegetative to pre- flowering		Avoid water logging in and around the crop field. Weeding may be after rains.
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.



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Orange/Lime/			
Lemon/ Litchi/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Tree bean			paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drinki	ng water for birds a	nd animals.	
- Apply Himax ointmen	t twice daily on anima	al body to prevent bite	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.
		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.
115	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. & H.S.
	excepts the young	Deworming	Deworm with Tolzan- F
Cattle	ones	Management	Provide wholesome water.
			Protection from high temp may be ensured.
			Electrolytes in the form of powder/ liquid may be given.
			Increase salt level in feed.
Fishery:			
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^{*} 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.
1	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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Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



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Weather forecast for next five days of Churachandpur (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. 30 - 31 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 99 % (max RH) & 80 % (min RH). The average wind speed may be 2 - 5 km/hr.

Field Crops		T	7
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity		- Drain out water completely from field approximately fifteen days before
	(Pre-kharif rice)		harvesting.
	Nursery to land		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
	preparation for		- Land preparation of main field may be started for transplanting rice seedling.
	transplanting		Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final
	(kharif rice)		leveling.
D.			- Uproot seedlings at 25 to 35 days after sowing depending on availability of
Rice			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.
	Di		- Treat seed treatment with Humicil @ 5ml/kg seed.
	Direct seeding		
	with drum seeder		- Puddle the field properly and level it.
			- Drain out water 24 hrs before sowing.
7.5.1	X7		- Use just pre-germinated seeds.
Maize	Vegetative		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha.
			- At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean /	Vegetative to		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut	sowing (if not		after rain.
	done		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram &	Sowing to		- Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice bean	vegetative		- Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha.
			- Sow by dibbling (row to row spacing of 45cm).
			- 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
Colocasia	Vegetative		- After the wet spell, earthing up may be done in 45-50 days old plants and top
			dress with 25 kg DAP/ sangam.
			- As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of
			water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after
			the wet spell.
Cowpea	Vegetative to pre-		Avoid water logging in and around the crop field.
	flowering		Weeding may be after rains.
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 assivii ii uit	1 1 1111115		15 days after spraying. Avoid water stagnation.
		1	13 days and spraying. Avoid water stagnation.



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Orange/Lime/			
Lemon/ Litchi/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Tree bean			paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drinki	ng water for birds a	nd animals.	
- Apply Himax ointmer	nt twice daily on anima	al body to prevent bite	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.
	4.11	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.
115	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. & H.S.
Cattle	excepts the young	Deworming	Deworm with Tolzan- F
	ones	Management	Provide wholesome water.
			Protection from high temp may be ensured.
			Electrolytes in the form of powder/ liquid may be given.
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Fishery:			
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^{*} 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.
1	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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



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Weather forecast for next five days of Senapati (1st to 5th July, 2017)

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Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
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. 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 with drum seeder		- Treat seed treatment with Humicil @ 5ml/kg seed Puddle the field properly and level it Drain out water 24 hrs before sowing Use just pre-germinated seeds.
Maize	Vegetative		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha At knee height stage, apply urea @ 43 kg Urea/ ha.
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Blackgram & Rice bean	Sowing to vegetative		 Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha Sow by dibbling (row to row spacing of 45cm).
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.
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Cowpea	Vegetative to pre- flowering		Avoid water logging in and around the crop field. Weeding may be after rains.
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





Orange/Lime/			
Lemon/ Litchi/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Tree bean			paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drinki			
- Apply Himax ointmen	nt twice daily on anima	al body to prevent bite	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.
	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.
1.5	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. & H.S.
Cattle	excepts the young	Deworming	Deworm with Tolzan- F
	ones	Management	Provide wholesome water.
			Protection from high temp may be ensured.
			➤ Electrolytes in the form of powder/ liquid may be given.
			➤ Increase salt level in feed.
Fishery:			
* E:41- 1		111 1 114	1 661

* 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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th June, 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 1st to 5th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th June, 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 (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. 29 - 31 °C & minimum temp. 23 - 24 °C. Relative humidity may reach up to 99 % (max RH) & 91 % (min RH). The average wind speed may be 2 - 4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
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. - 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 with drum seeder		 Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing.
Maize	Vegetative		 - Use just pre-germinated seeds. - After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha. - At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean / Groundnut	Vegetative to sowing (if not done		 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.
Blackgram & Rice bean	Sowing to vegetative		- Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds Avoid sowing in water logged fields.
Rice bean	Vegetative		Seed rate: 20 kg/ha.Sow by dibbling (row to row spacing of 45cm).
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
Colocasia	Vegetative		 - After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. - As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
Cowpea	Vegetative to pre- flowering		Avoid water logging in and around the crop field. Weeding may be after rains.
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.

De-worming

Vaccination

Management

B.Q. & H.S.

Deworming

Management

- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.

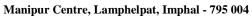
- Provide adequate amount of wholesome water (drinking).

Electrolytes in the form of powder/ liquid may be given.

Protection from high temp may be ensured.



ICAR Research Complex for N.E.H. Region





"Gramin Krishi Mausam Seva"

Orange/Lime/ Lemon/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drink	ing water for birds	and animals.	
- Apply Himax ointmen	nt twice daily on anir	nal body to prevent bite	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 ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q.

- Vaccinate against FMD.

Deworm with Tolzan-F

Vaccinate against B.Q. & H.S.

Provide wholesome water.

Increase salt level in feed.

- Essential body salts may be provided.

Fishery:

Pig

Cattle

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

All age groups

All age groups

excepts the young

except the young

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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th June, 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 1st to 5th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th June, 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 Thoubal (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. 30 - 31 °C & minimum temp. 22 - 23 °C. Relative humidity may reach up to 99 % (max RH) & 91 % (min RH). The average wind speed may be 0 - 4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
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. - 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 with drum seeder		 Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing.
Maize	Vegetative		 - Use just pre-germinated seeds. - After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha. - At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean / Groundnut	Vegetative to sowing (if not done		- 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.
Blackgram & Rice bean	Sowing to vegetative		- Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha Sow by dibbling (row to row spacing of 45cm).
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	- I	1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative		 - After the wet spell, earthing up may be done in 45-50 days old plants and top dress with 25 kg DAP/ sangam. - As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after the wet spell.
Cowpea	Vegetative to pre- flowering		Avoid water logging in and around the crop field. Weeding may be after rains.
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





Orange/Lime/			
Lemon/ Litchi/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Tree bean			paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drinki	ng water for birds a	nd animals.	
- Apply Himax ointmen	t twice daily on anima	al body to prevent bite	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.
		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.
115	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. & H.S.
Cattle	excepts the young	Deworming	Deworm with Tolzan- F
	ones	Management	Provide wholesome water.
			Protection from high temp may be ensured.
			Electrolytes in the form of powder/ liquid may be given.
			Increase salt level in feed.
Fishery:			
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^{*} 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.
1	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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th June, 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 1st to 5th July, 2017 as below:

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Weather forecast for next five days of Ukhrul (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. 30 - 31 $^{\circ}$ C & minimum temp. 23 $^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 92 % (min RH). The average wind speed may be 4 - 6 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
	Nursery to land		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
	preparation for		- Land preparation of main field may be started for transplanting rice seedling.
	transplanting		Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final
	(kharif rice)		leveling.
Rice			- 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
Rice			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		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha.
			- At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean /	Vegetative to		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut	sowing (if not		after rain.
	done		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram &	Sowing to		- Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice bean	vegetative		- Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha.
			- Sow by dibbling (row to row spacing of 45cm).
			- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
G 1 4	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			Walaumon 170 on the wans of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Vegetative	1 est and disease	- After the wet spell, earthing up may be done in 45-50 days old plants and top
Colocasia	v egetative		dress with 25 kg DAP/ sangam.
			- As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of
			water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after
			the wet spell.
Cowpea	Vegetative to pre-		Avoid water logging in and around the crop field.
	flowering		Weeding may be after rains.
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.

- Provide adequate amount of wholesome water (drinking).

Electrolytes in the form of powder/ liquid may be given.

Protection from high temp may be ensured.

- Essential body salts may be provided.

Vaccinate against B.Q. & H.S. Deworm with Tolzan-F

Provide wholesome water.

Increase salt level in feed.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



Orange/Lime/ Lemon/ Litchi/ Tree bean	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drink	ing water for birds a	nd animals.	
- Apply Himax ointmer	nt twice daily on anim	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 ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q.
	A 11	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Piσ	All age groups	Vaccination	- Vaccinate against FMD.

Fishery:

Pig

Cattle

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

Management

B.Q. & H.S.

Deworming

Management

except the young

All age groups

excepts the young

ones

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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th June, 2017

<u>Imphal East</u>

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 1st to 5th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th June, 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 (1st to 5th July, 2017)

Likely to have heavy to very heavy rainfall at isolated places over Manipur upto Wednesday with mainly cloudy to overcast sky and maximum temp. $28 - 30 \,^{\circ}$ C & minimum temp. $21 - 22 \,^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 92 % (min RH). The average wind speed may be $2 - 4 \, \text{km/hr}$.

Field Crops	T	T	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
	Nursery to land		- Apply Carbofuran 3G @2kg/ha a week before uprooting the seedling.
	preparation for		- Land preparation of main field may be started for transplanting rice seedling.
	transplanting		Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final
	(kharif rice)		leveling.
	(Kilaili lice)		- Uproot seedlings at 25 to 35 days after sowing depending on availability of
Rice			water. About 1200 to 1300 bundles of seedlings (40cm diameter) may be
Ricc			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 Grain Seeder		- Drain out water 24 hrs before sowing.
			- Use just pre-germinated seeds.
Maize	Vegetative		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha.
Willie			- At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean /	Vegetative to		- Earthing-up and thinning may be done at 30 to 40 days after sowing of crop
Groundnut	sowing (if not		after rain.
	done		- Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing.
Blackgram &	Sowing to		- Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds.
Rice bean	vegetative		- Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha.
			- Sow by dibbling (row to row spacing of 45cm).
			- 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
Colocasia	Vegetative		- After the wet spell, earthing up may be done in 45-50 days old plants and top
			dress with 25 kg DAP/ sangam.
			- As prophylactic measure against leaf blight, spray Redomil @ 1.5g/ litre of
			water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after
			the wet spell.
Cowpea	Vegetative to pre-		Avoid water logging in and around the crop field.
O: //E :	flowering	I CC .	Weeding may be after rains.
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
	n u		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.



Manipur Centre, Lamphelpat, Imphal - 795 004





Orange/Lime/			
Lemon/ Litchi/	Planting	Lichen incidence	- If lichen is observed, then scrap out the affected area and paint with Bordeaux
Tree bean			paste or Benlate after the wet spell.
Animal Sciences			
* Provide clean drinki			
- Apply Himax ointmer			
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/ 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.
		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.
115	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. & H.S.
	excepts the young	Deworming	Deworm with Tolzan- F
Cattle	ones	Management	Provide wholesome water.
			Protection from high temp may be ensured.
			Electrolytes in the form of powder/ liquid may be given.
			➤ Increase salt level in feed.
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.
1	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.

SMS:

Lakliba Yumjakeisa faobada nong kanna chuba yai. Nong hangakpada louhon thadoknaba loufam semba loisanlakpada hectare amada 65kg Urea, 250 kg SSP amadi 45 kg MOP happiyu. Louhon foidringei chayol amagi mamangda hectare amada 2kg gi changda Carbofuran 3G happiyu. Numit 25-35ni shuraba louhon thadokpiba yarani.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

30th June, 2017

Imphal West

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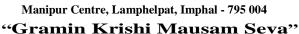
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Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity (Pre-kharif rice)		- Drain out water completely from field approximately fifteen days before harvesting.
	Nursery to land preparation for transplanting (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. 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 with drum seeder		 Treat seed treatment with Humicil @ 5ml/kg seed. Puddle the field properly and level it. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- After rain weeding may be done by hand or apply Simazine @ 0.75 kg a.i./ ha At knee height stage, apply urea @ 43 kg Urea/ ha.
Soybean / Groundnut	Vegetative to sowing (if not done		 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.
Blackgram & Rice bean	Sowing to vegetative		 Treat the seed with Thiram or Captan before sowing @ 2g/kg seeds. Avoid sowing in water logged fields.
Rice bean	Vegetative		- Seed rate: 20 kg/ha Sow by dibbling (row to row spacing of 45cm).
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.
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Cowpea	Vegetative to pre- flowering		Avoid water logging in and around the crop field. Weeding may be after rains.
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
Tree bean			paste or Benlate after the wet spell.

Animal Sciences

* Provide clean drinking water for birds and animals.

Name of bird/ animal Stage Disease and Agro-meteorological advisories

Poultry (Chicken/Turkey/ Duck)		8	Management	
Poultry (Chicken/ Turkey/ Duck) Deworming Deworming of animals should be done using Albendazole @7.5 mg/kg b.wt. Deworming Deworming Deworming Deworming of animals should be done using Albendazole @7.5 mg/kg b.wt. Deworming Deworming Deworming Deworming of animals should be done using Albendazole @7.5 mg/kg b.wt. Provide adequate amount of wholesome water (drinking). Essential body salts may be provided. All age groups excepts the young ones All age groups excepts the young ones Deworming Deworm with Tolzan- F Management Provide wholesome water. Provide wholesome water. Provide wholesome water. Provide wholesome water. Provide wholesome water.	• `	All age groups	Fowl Pox	Vaccinate against fowl pox.
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Fishery:

- Apply Himax ointment twice daily on animal body to prevent bite of fly and mosquitoes.

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