"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Tamenglong

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Tamenglong (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C.	temp. 28-30 °C & mini. temp. 17-19 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 99 % (max) & 36 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 3-5 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops		-	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		 Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and case worm	 Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
Rice Bean	Seed treatment to sowing		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Planting		-Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



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Lime/ Lemon	Transplantin	g	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Pond and water	Maintain minimum depth of 1.5 m.
	grow-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.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Thoubal

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Thoubal (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C.	temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 97 % (max) & 30 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 6-9 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		 Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and case worm	 Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible. Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.
Rice Bean	Seed treatment to sowing		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Planting		-Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with 20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



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Lime/ Lemon	Transplantin	g	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Pond and water	Maintain minimum depth of 1.5 m.
	grow-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.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Ukhrul (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C.	temp. 28-30 °C & mini. temp. 17-19 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 93 % (max) & 35 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 4-6 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to
			rains. - Land preparation for transplanting of rice seedlings may be started.
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm
	0	case worm	infestation is observed, drain out the field immediately when possible.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with
	20000		Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30
			kg of MOP per hectare as a basal application during final ploughing or
			at the time of sowing.
Soybean/	Seed treatment to		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of
Groundnut/	sowing		MOP per ha as a basal application during final ploughing or
Blackgram			incorporated at the time of sowing. Treat seeds with Nativo@2g/kg
			seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre
			water or with Thiram before sowing. Seed rate of soybean is 40-
			45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed
			rate for Blackgram is 10-15kg/ha.
Rice Bean	Seed treatment to		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with
	sowing		Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
			Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops	Ct.		
Name of the crop Colocasia	Stage Planting	Pest and disease	Agro-meteorological advisories -Planting may be done after rains. Select healthy planting material and
			treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in
			rain protective structures/ low cost polyhouse is available with the
			farmers.
Cucurbits	Flowering to	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	fruiting and	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
	harvesting		ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season.
			Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with
			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



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Lime/ Lemon	Transplantir	ng	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
	0	Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
•		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery	-	•	
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Pond and water	Maintain minimum depth of 1.5 m.
	grow-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.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: 1	Bishnupur
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Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Bishnupur (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from $26.0 - 30.7$ °C and minimum of $18.3-20.4$ °C.	temp. 30-32 °C & mini. temp. 19-20 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 98 % (max) & 33 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 3-6 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to
	neid preparation		rains.
			- Land preparation for transplanting of rice seedlings may be started.
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
			of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm
	-	case worm	infestation is observed, drain out the field immediately when possible.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated
			in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with
			Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30
			kg of MOP per hectare as a basal application during final ploughing or
			at the time of sowing.
Soybean/	Seed treatment to		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of
Groundnut/	sowing		MOP per ha as a basal application during final ploughing or
Blackgram			incorporated at the time of sowing. Treat seeds with Nativo@2g/kg
			seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre
			water or with Thiram before sowing. Seed rate of soybean is 40-
			45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed
			rate for Blackgram is 10-15kg/ha.
Rice Bean	Seed treatment to		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with
	sowing		Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
			Check for moisture content or weight of charcoal and dry if required.
Horticulture CropsName of the crop	Sta	Pest and disease	Agro-meteorological advisories
Colocasia	Stage Planting	Pest and disease	-Planting may be done after rains. Select healthy planting material and
Colocasia	Tanting		treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply
			100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in
			rain protective structures/ low cost polyhouse is available with the
			farmers.
Cucurbits	Flowering to	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	fruiting and	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
	harvesting		ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season.
			Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with
			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
	-	•	



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Lime/ Lemon	Transplantir	g	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m.
			Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Chandel (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from $26.0 - 30.7$ °C and minimum of $18.3-20.4$ °C.	temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 93 % (max) & 27 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 4-8 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to
	none propulation		rains.
			- Land preparation for transplanting of rice seedlings may be started.
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
			of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm
		case worm	infestation is observed, drain out the field immediately when possible.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with
	C		Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30
			kg of MOP per hectare as a basal application during final ploughing or
			at the time of sowing.
Soybean/	Seed treatment to		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of
Groundnut/	sowing		MOP per ha as a basal application during final ploughing or
Blackgram			incorporated at the time of sowing. Treat seeds with Nativo@2g/kg
			seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre
			water or with Thiram before sowing. Seed rate of soybean is 40- 45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed
			rate for Blackgram is 10-15kg/ha.
Rice Bean	Seed treatment to		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with
	sowing		Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
_	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
			Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops		-	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Planting		-Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply
			100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in
			rain protective structures/ low cost polyhouse is available with the
~			farmers.
Cucurbits	Flowering to	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	fruiting and	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
Litabi	harvesting		ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with
			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



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Lime/ Lemon	Transplantin	g	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery			
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m.
			Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Churachandpur (29 th May to 2 nd June,
13.5 mm rainfall was observed during the past four days. The skies	<u>2019):</u>
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Likely to have moderate to heavy rains at isolated places from
temperature ranged from $26.0 - 30.7$ °C and minimum of $18.3-20.4$ °C.	Friday. The sky will remain partly cloudy to cloudy with max.
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity
the past four days & average wind speed was 1.9-7.8 km/ hr.	may reach upto 99 % (max) & 33 % (min). The average wind
	speed may be 3-5 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops					
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Kharif Rice	Nursery to main field preparation		 Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to rains. Land preparation for transplanting of rice seedlings may be started. 		
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling.		
Pre-kharif Rice	Grain filling	Leaf folder and case worm	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm infestation is observed, drain out the field immediately when possible.		
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.		
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30 kg of MOP per hectare as a basal application during final ploughing or at the time of sowing.		
Soybean/ Groundnut/ Blackgram	Seed treatment to sowing		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of MOP per ha as a basal application during final ploughing or incorporated at the time of sowing. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre water or with Thiram before sowing. Seed rate of soybean is 40-45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed rate for Blackgram is 10-15kg/ha.		
Rice Bean	Seed treatment to sowing		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed before sowing.		
Seed storage	Post-harvest Management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.		
Horticulture Crops		•			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Colocasia	Planting		-Planting may be done after rains. Select healthy planting material and treat it before planting.		
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply 100kg Urea and 300kg kg SSP at 2-3 months.		
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in rain protective structures/ low cost polyhouse is available with the farmers.		
Cucurbits	Flowering to fruiting and harvesting	Red Pumpkin Beetle	 Use Methyl Euginol as trap @ 4-10 traps/ sangam. To prevent mite in the lower surface of leaves, use Neem oil @ 2-3 ml / litre of water. 		
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season. Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with		

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Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



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			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.
Lime/ Lemon	Transplantin	g	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3 months of age	Swine Fever FMD Coccidial infection	 Vaccinate against swine fever after the age of 3 months. Vaccinate against FMD after the age of 3 months. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days.
Cattle	Above 3 months of age	Mites infestation Deworming Milk fever Fodder cultivation	 Spray with Skin Heal Spray in sufficient quantity. Give Albendazole @30 ml per 100kg body weight. Give mineral mixture@ 60g/day in divided dose to the pregnant ones. Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination Management	 Vaccinate against Enterotoxaemia and sheep pox. Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery		•	
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.5 m. Apply Lime/ Green AQ for maintaining good quality water.
		Feed	Provide 2-3 times @ 5-10% body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
	Brooder	Pond water and feed	Maintain minimum depth of 2.0-2.2 m. Provide feed @ 3-5 % body weight per day.
	Breeding	Hormone	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 0.5 ml/kg of fish for catla, rohu and mirgal; 0.5-0.7 ml/kg for grass carp.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Imphal East (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C.	temp. 30-32 °C & mini. temp. 19-20 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 89 % (max) & 30 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 5-8 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

	Stage Jursery to main add preparation	Pest and disease	Agro-meteorological advisories - Maintain water level just to submerge the soil surface and expose the
	ore proparation		green aerial sprouts. Drain out excess water if accumulated due to
			rains.
			- Land preparation for transplanting of rice seedlings may be started.
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
			of final leveling.
Pre-kharif Rice G	brain filling	Leaf folder and	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm
	-	case worm	infestation is observed, drain out the field immediately when possible.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize So	owing		- Sowing of kharif maize may be done after seed treatment with
	owing		Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30
			kg of MOP per hectare as a basal application during final ploughing or
			at the time of sowing.
	eed treatment to		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of
Groundnut/ sc	owing		MOP per ha as a basal application during final ploughing or
Blackgram			incorporated at the time of sowing. Treat seeds with Nativo@2g/kg
			seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre
			water or with Thiram before sowing. Seed rate of soybean is 40-
			45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed
			rate for Blackgram is 10-15kg/ha.
	eed treatment to		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with
	owing		Bavistin@2.5g/kg seed before sowing.
0	ost-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
IVI	lanagement		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
Horticulture Crops			Check for moisture content or weight of charcoal and dry if required.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	lanting	i est and discuse	-Planting may be done after rains. Select healthy planting material and
	8		treat it before planting.
Turmeric V	<i>vegetative</i>		- Weeding and interculture operation may be done after rains and apply
	-		100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower N	lursery		- Preparation of nursery for early cauliflower in the upland area or in
			rain protective structures/ low cost polyhouse is available with the
			farmers.
	lowering to	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	ruiting and	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
	arvesting		ml / litre of water.
Litchi N	lursery		Two years old seedlings may be used for planting during rainy season.
			Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with
			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

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Lime/ Lemon	Transplantir	ıg	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
	0	Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery		•	
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Pond and water	Maintain minimum depth of 1.5 m.
	grow-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.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal West

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Imphal West (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C.	temp. 29-32 °C & mini. temp. 18-20 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 98 % (max) & 35 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 3-4 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main field preparation		- Maintain water level just to submerge the soil surface and expose the green aerial sprouts. Drain out excess water if accumulated due to
			rains.
			- Land preparation for transplanting of rice seedlings may be started.
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
			of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm
		case worm	infestation is observed, drain out the field immediately when possible.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with
	C		Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30
			kg of MOP per hectare as a basal application during final ploughing or
			at the time of sowing.
Soybean/	Seed treatment to		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of
Groundnut/	sowing		MOP per ha as a basal application during final ploughing or
Blackgram			incorporated at the time of sowing. Treat seeds with Nativo@2g/kg
			seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre
			water or with Thiram before sowing. Seed rate of soybean is 40-
			45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed
Rice Bean	Seed treatment to		rate for Blackgram is 10-15kg/ha. Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with
Kice Deali	sowing		Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying
Seeu Storuge	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
	1. In the second s		Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply
			100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in
			rain protective structures/ low cost polyhouse is available with the
			farmers.
Cucurbits	Flowering to	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	fruiting and	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
	harvesting		ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season.
			Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with
			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



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Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
	0	Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery		•	
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Pond and water	Maintain minimum depth of 1.5 m.
	grow-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.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Senapati

Date of issue: 28th May, 2019

Past weather for the of Imphal West (24 th to 27 th May, 19):	Weather forecast for Senapati (29 th May to 2 nd June, 2019):
13.5 mm rainfall was observed during the past four days. The skies	Likely to have moderate to heavy rains at isolated places from
remained mainly cloudy and partly cloudy on 27 th afternoon. Maximum	Friday. The sky will remain partly cloudy to cloudy with max.
temperature ranged from 26.0 – 30.7 °C and minimum of 18.3-20.4 °C.	temp. 27-30 °C & mini. temp. 17-19 °C. Relative humidity
Mean relative humidity of 87.5 % max & 68.3 % min was recorded in	may reach upto 95 % (max) & 41 % (min). The average wind
the past four days & average wind speed was 1.9-7.8 km/ hr.	speed may be 4-5 km/hr.

General Advisory:

- 1. For Fall Army Worm in maize, do not schedule chemical insecticide spray before rains. It will be washed away. When RH is high due to rains, spray Beauvevia bassiana @3ml/litre water during evening hours and after 3 days spray Metarhizium anisopliae @ 5ml/ litre water.
- 2. Provisions may be made to harvest rain water.
- 3. The insect-pest sprays and fertilizer applications mentioned below may be followed after the rains.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Nursery to main		- Maintain water level just to submerge the soil surface and expose the
	field preparation		green aerial sprouts. Drain out excess water if accumulated due to rains.
			- Land preparation for transplanting of rice seedlings may be started.
			Apply 65kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time
Des 11 este D'es	Casia Cillian		of final leveling.
Pre-kharif Rice	Grain filling	Leaf folder and	Apply Lambdacyhothrin 5% @ 15 ml/ 15 litres of water. If case worm
		case worm	infestation is observed, drain out the field immediately when possible.
			- Maintain water level at 5-8 cm. Drain out excess water if accumulated
771 10 1			in the crop field due to rains.
Kharif maize	Sowing		- Sowing of kharif maize may be done after seed treatment with
			Carbendazim @ 2g/kg seeds. Apply 60kg of urea, 65kg of DAP and 30
			kg of MOP per hectare as a basal application during final ploughing or
<i>a i i</i>	~ .		at the time of sowing.
Soybean/	Seed treatment to		Apply 44 kg of urea, 375kg of SSP or 130 kg of DAP and 67 kg of
Groundnut/ Blackgram	sowing		MOP per ha as a basal application during final ploughing or
ыаскугаш			incorporated at the time of sowing. Treat seeds with Nativo@2g/kg
			seeds or with Bavistin@2.5g/kg seed or Imidacloprid @ 2ml/ litre
			water or with Thiram before sowing. Seed rate of soybean is 40-
			45kg/ha. Seed rate for groundnut is 100-110 kg of Kernal/ ha. Seed
			rate for Blackgram is 10-15kg/ha.
Rice Bean	Seed treatment to		Sowing may be done. Treat seeds with Nativo@2g/kg seeds or with
	sowing		Bavistin@2.5g/kg seed before sowing.
Seed storage	Post-harvest		- For seed purpose store the seeds in RC-Seed Bin after proper drying
	Management		and cleaning of seeds along with dry charcoal at 80:20 w/w ratios.
			Check for moisture content or weight of charcoal and dry if required.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Colocasia	Planting		-Planting may be done after rains. Select healthy planting material and treat it before planting.
Turmeric	Vegetative		- Weeding and interculture operation may be done after rains and apply
Turmerie	v egetuti ve		100kg Urea and 300kg kg SSP at 2-3 months.
Cauliflower	Nursery		- Preparation of nursery for early cauliflower in the upland area or in
Cudintonei	r (arbor y		rain protective structures/ low cost polyhouse is available with the
			farmers.
Cucurbits	Flowering to	Red Pumpkin	- Use Methyl Euginol as trap @ 4-10 traps/ sangam.
	fruiting and	Beetle	- To prevent mite in the lower surface of leaves, use Neem oil @ 2-3
	harvesting	Deette	ml / litre of water.
Litchi	Nursery		Two years old seedlings may be used for planting during rainy season.
	i vui sei y		Prepare pit of 1m in diameter and 1m in depth. Mix the top soil with
			20-25 kg FYM. Keep a distance of 7.5 to 9 m from plant to plant.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



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Lime/ Lemon	Transplantin	g	 In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and <i>Trichoderma harzianum</i> @ 20g/ pit with the top soil.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups		 Bleaching powder may be spread near farm premises. To avoid dehydration give vit C in drinking water along with other vitamins/ ORS during evening. Avoid caking of litter materials.
Pig	Above 3	Swine Fever	- Vaccinate against swine fever after the age of 3 months.
	months of	FMD	- Vaccinate against FMD after the age of 3 months.
	age	Coccidial infection	- Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
Cattle	Above 3	Mites infestation	- Spray with Skin Heal Spray in sufficient quantity.
	months of	Deworming	- Give Albendazole @30 ml per 100kg body weight.
	age	Milk fever	- Give mineral mixture@ 60g/day in divided dose to the pregnant ones.
		Fodder cultivation	- Maize/ Jowar/ Bajra sown and may be harvested after 45-50 days.
Sheep/Goat	All animals	Vaccination	- Vaccinate against Enterotoxaemia and sheep pox.
-		Management	- Fly repellent must be used. Disinfection of farm and primises are to be carried out strictly. Due care need to be taken to prevent spread of disease caused by flies/ mosquitoes/ ticks, etc.
Fishery	-	•	
Type of Farming	Stage	Field	Agro-metrological advisories
Carp culture	Nurseries/	Pond and water	Maintain minimum depth of 1.5 m.
	grow-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.
	Hatcheries	Water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.