

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



MANIPUR BULLETIN

6th October, 2017

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<u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Bishnupur (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	temp. 32 °C & minimum temp. 22 °C. Relative humidity may reach up
mean relative humidity 88.7 % max and 67.0 % min was recorded	to 97 % (max RH) & 77 % (min RH). The average wind speed may be
in the past three days.	2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- If the crop is in grain filling stage, maintain water level at 5-8 cm.
	Grain filling to		- If the crop has attained maturity then drain out water nearly 15 days before
Diag	maturity		tentative date of harvesting.
Rice		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of
			water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
			should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept
			for 3-4 days to increase maturity.
Blackgram &	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
Rice bean			should be dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.

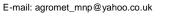




French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation to		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be
	sowing		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill).
			For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparatio	n	- Land preparation for planting potato for early crop and also for production of
	and seed		seed may be started after the rains in foothills and upland area.
	collection		- Select the area with fertile and sandy loam soil rather than with stone and gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome		- Mulch the bed with paddy straw or green leaves especially leguminous plants
Ginger/ Turmerie	formation		rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera is also useful for controlling shoot borer.
			- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
Animal Sciences			
			r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Doultwy (Chickon//	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ / Duck)		Litter Management	Use dry litter material in the shed;
Duck)) if there is moisture, apply lime powder @ 1kg per 100 ft^2 area
) Litter may be come wet due to sudden and unexpected rain during this time,
	All aga groups	V	wet litter must be replaced immediately
	All age groups) Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat	-	De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	Sheep should be sheared during this month.
		Coccidial infection	JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	4.11	(Diarrhea)	$\int O Hoxachie/O Hildazole (O_2) tab twice daily for 5 days.$
Pig	All age groups – except the) De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	young ones	Vaccination	Vaccinate against FMD.
		Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	J Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
	excepts the	,	Cases of H.S. may be encountered during this period
Cattle	young ones) Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
) Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	Mixture of mineral/ salts should be added in the feed.
			Avoid the cattle from chiting/biting by Flies
		J Milk fever in Milch	Adopt tick control measures 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.



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





MANIPUR BULLETIN

6th October, 2017

<u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Chandel (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	temp. 32 ° C & minimum temp. 22 ° C. Relative humidity may reach up
mean relative humidity 88.7 % max and 67.0 % min was recorded	to 96 % (max RH) & 76 % (min RH). The average wind speed may be
in the past three days.	2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- If the crop is in grain filling stage, maintain water level at 5-8 cm.
	Grain filling to		- If the crop has attained maturity then drain out water nearly 15 days before
maturity		tentative date of harvesting.	
Rice		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of
			water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
			should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept
			for 3-4 days to increase maturity.
Blackgram &	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
Rice bean			should be dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.





French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits
Broad bean	preparation to sowing		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparatio and seed collection	n	 Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (ricl in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrien availability. Apply Trichoderma along with bio-fertilizer (Azospirilium Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
Animal Sciences			, <u> </u>
	0		r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ / Duck)) Litter Management	 J Use dry litter material in the shed; j if there is moisture, apply lime powder @ 1kg per 100 ft² area J Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
	All age groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.
	All age gloups		Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat	An age groups	J De-worming	J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
Sheep/ Goat	All age gloups	De-worming Dearing for wool	
Sheep/ Goat		,	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
	All age groups except the	J Shearing for wool J Coccidial infection	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month.
	All age groups	J Shearing for wool J Coccidial infection (Diarrhea)	J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O2) tab twice daily for 5 days.
	All age groups except the young ones	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. J De-worm with Albendazole @7.5 mg/kg b.wt. J Vaccinate against FMD. J Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups except the	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination	 Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period
Pig	All age groups except the young ones All age groups excepts the	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	 Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must
Sheep/ Goat Pig Cattle	All age groups except the young ones All age groups excepts the	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination	 Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-



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MANIPUR BULLETIN

6th October, 2017

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Churachandpur (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	temp. 31 °C & minimum temp. 21 °C. Relative humidity may reach up
mean relative humidity 88.7 % max and 67.0 % min was recorded	to 98 % (max RH) & 75 % (min RH). The average wind speed may be
in the past three days.	2-3 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Grain filling to maturity		 If the crop is in grain filling stage, maintain water level at 5-8 cm. If the crop has attained maturity then drain out water nearly 15 days before tentative date of harvesting.
Rice		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram & Rice bean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.



"Gramin Krishi Mausam Seva"



Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
preparation to		etc. had been harvested and where there is proper drainage facility.
sowing		Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
		at a spacing of 30cm x 60cm with 2-3 seeds per hill).
		For broad bean, plant local variety at a spacing of 30cm x 45cm.
	n	- Land preparation for planting potato for early crop and also for production of
		seed may be started after the rains in foothills and upland area.
collection		- Select the area with fertile and sandy loam soil rather than with stone and
Dhimana		gravel. Collect disease free tuber seed for planting.
		- Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich
Tormation		in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera is also useful for controlling shoot borer.
		- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrien
		availability. Apply Trichoderma along with bio-fertilizer (Azospirilium Azotobacter and PSB, etc.).
	Shoot borer	- Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval
		twice or thrice depending upon the severity of incidence.
ing water to birds	and animals. Avoid water	r logging around the sheds as it may help in mosquito breeding.
		Agro-meteorological advisories
Stage		Agro-meteolological auvisories
All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
	Litter Management	Use dry litter material in the shed;
	,) if there is moisture, apply lime powder @ 1kg per 100 ft^2 area
		Litter may be come wet due to sudden and unexpected rain during this time,
		wet litter must be replaced immediately
All age groups) Vaccination	Vaccinate against B.Q./ H.S. this time.
		Lambs should be vaccinated against Enterotoxaemia.
-	,	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
	, .	Sheep should be sheared during this month.
All age groups) Coccidial infection (Diarrhea)) Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.
001) De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
young ones	J Vaccination	/ Vaccinate against FMD.
) Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
All age groups	J Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
excepts the		Cases of H.S. may be encountered during this period
young ones) Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
) Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
	Care & Management	Mixture of mineral/ salts should be added in the feed.
		Avoid the cattle from chiting/biting by Flies
	J Milk fever in Milch	Adopt tick control measures J 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	preparation to sowing Land preparation and seed collection Rhizome formation ing water to birds or reduce flies and Stage All age groups All age groups except the young ones All age groups	preparation to sowing Image: solution of the second collection Land preparation and seed collection Image: solution of the second collection Rhizome formation Shoot borer ing water to birds and animals. Avoid water to coreduce flies and mosquitoes population in stage Shoot borer oreduce flies and mosquitoes population in Stage Disease and Management All age groups J Deworming All age groups J Vaccination All age groups except the young ones J De-worming J De-worming J De-worming J Skin disease All age groups except the young ones J Deworming J Vaccination J Skin disease J Deworming J Deworming J Skin disease All age groups excepts the young ones J Deworming

J Forage/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.



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6th October, 2017

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Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Imphal East (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	
mean relative humidity 88.7 % max and 67.0 % min was recorded	
in the past three days.	3-4 km/hr.

C .		
Stage	Pest and disease	Agro-meteorological advisories
Grain filling to maturity		 If the crop is in grain filling stage, maintain water level at 5-8 cm. If the crop has attained maturity then drain out water nearly 15 days before tentative date of harvesting.
	Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
	Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for 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.
	maturityMaturity stageMaturity stageMaturity stagePost harvest	Grain filling to maturity Aphid, mealy bugs Plant hopper Maturity stage Maturity stage Post harvest

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.



"Gramin Krishi Mausam Seva"

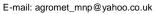


French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits
Broad bean	preparation to		etc. had been harvested and where there is proper drainage facility.
	sowing		Recommended varieties for French bean are – Pant Anupam, Anupam (to be
	-		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill).
	T 1		For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparatio	'n	- Land preparation for planting potato for early crop and also for production of
	and seed collection		seed may be started after the rains in foothills and upland area.
	conection		- Select the area with fertile and sandy loam soil rather than with stone and gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome		- Mulch the bed with paddy straw or green leaves especially leguminous plan
Ginger/Turmeric	formation		rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (ric in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera i also useful for controlling shoot borer.
			- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrier
			availability. Apply Trichoderma along with bio-fertilizer (Azospiriliun Azotobacter and PSB, etc.).
		Shoot borer	- Spray Malathion or Monocrotophos @ 1 ml/ lit of water at 21 days interval
			twice or thrice depending upon the severity of incidence.
Animal Sciences			
			r logging around the sheds as it may help in mosquito breeding.
	to reduce flies and		and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Devilture (Chishers / /	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ /		J Litter Management	Use dry litter material in the shed;
Duck)) if there is moisture, apply lime powder @ 1kg per 100 ft^2 area
			Litter may be come wet due to sudden and unexpected rain during this time,
			wet litter must be replaced immediately
	All age groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.
			Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat) De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	Sheep should be sheared during this month.
		Coccidial infection (Diarrhea)) Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.
Pig	All age groups except the young ones) De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
115		Vaccination	Vaccinate against FMD.
		Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
	excepts the) vaccination	Cases of H.S. may be encountered during this period
	young ones		 J Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
Cattle) Deworming	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Management	Mixture of mineral/ salts should be added in the feed.
		,	Avoid the cattle from chiting/biting by Flies
			Adopt tick control measures
		J Milk fever in Milch	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
		cow	

J Forage/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.



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





MANIPUR BULLETIN

3rd October, 2017

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (29 th September to 2 nd October, 2017)	Weather forecast for next five days of Imphal West (4 th to 8 th October, 2017)
Observed clear to overcast sky and 58.7 mm rainfall was	Likely to have heavy rains on Saturday and Sunday at isolated places
recorded during past four days. Maximum temperature range of	during next five days with mainly cloudy to overcast sky and maximum
25.4 to 31.2 °C and minimum temperature range of 21.0 to 22.0 °	temp. 32 ° C & minimum temp. 22 ° C. Relative humidity may reach up
C with mean relative humidity 95.8 % max and 74.0 % min was	to 94 % (max RH) & 56 % (min RH). The average wind speed may be
recorded in the past four days.	2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Grain filling to maturity		- Drain out excess water and maintain at the level of 5-8cm in grain filling stage but if the crop has attained maturity then drain out water nearly 15 days before tentative date of harvesting.
Rice		Neck Blast	- Spray Tricyclazole @ 6g/10 litres of water.
		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram & Rice bean	Maturity stage		Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
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
Carrot/ Radish/ Coriander	Sowing		Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.
French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparation and seed		 Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.



ICAR Research Complex for N.E.H. Region

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

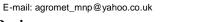


	l		7
	collection		Select the area with fertile and sandy loam soil rather than with stone and gravel.Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome formation	Leaf blotch & Leaf Spot Soil nutrition management	 To prevent occurrence/ spreading of leaf blotch and leaf spot, spray Carbendazim + Mencozeb @ 2g/ litre of water at 7-10 days interval. Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Sciences	L		· · ·
- Provide clean drink			r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ / Duck)) Litter Management	 J Use dry litter material in the shed; J if there is moisture, apply lime powder @ 1kg per 100 ft² area J Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately 	
	All age groups) Vaccination	 Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat) De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		Shearing for wool	Sheep should be sheared during this month.
	All age groups	Coccidial infection (Diarrhea)) Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.
Pig	except the) De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
C	young ones	J Vaccination	/ Vaccinate against FMD.
		Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
exc	All age groups excepts the young ones) Vaccination	 J Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. J Cases of H.S. may be encountered during this period J Immediate treatment using appropriate drugs with the help of Consultant mus be advocated to safe the animals.
) Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
) Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
		J Milk fever in Milch cow	$\int 70-100$ ml of a mixture of Ca+ and Phosphorus daily @ 5-7 days.
J Forage/ fodder culti	vation- Sowing of	Bersum and alfalfa should b	be started now.

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



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





MANIPUR BULLETIN

6th October, 2017

<u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Senapati (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	temp. 29 ° C & minimum temp. 20 ° C. Relative humidity may reach up
mean relative humidity 88.7 % max and 67.0 % min was recorded	to 93 % (max RH) & 77 % (min RH). The average wind speed may be
in the past three days.	3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- If the crop is in grain filling stage, maintain water level at 5-8 cm.
	Grain filling to		- If the crop has attained maturity then drain out water nearly 15 days before
Rice	maturity		tentative date of harvesting.
KICE		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of
			water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
			should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept
			for 3-4 days to increase maturity.
Blackgram &	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
Rice bean			should be dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.





French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits
Broad bean	preparation to sowing		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparatio and seed collection	n	 Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrien availability. Apply Trichoderma along with bio-fertilizer (Azospirilium Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
Animal Sciences			, <u> </u>
	0		r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ / Duck)) Litter Management	 J Use dry litter material in the shed; J if there is moisture, apply lime powder @ 1kg per 100 ft² area J Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
	All age groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.
	rin uge groups		Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat	. m age groups) De-worming	J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
Sheep/ Goat	i in age groups	De-worming Dearing for wool	
Sheep/ Goat		,	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
	All age groups except the	J Shearing for wool J Coccidial infection	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month.
	All age groups	J Shearing for wool J Coccidial infection (Diarrhea)	J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O2) tab twice daily for 5 days.
	All age groups except the young ones	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. J De-worm with Albendazole @7.5 mg/kg b.wt. J Vaccinate against FMD. J Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups except the	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination	 Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period
Pig	All age groups except the young ones All age groups excepts the	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	 Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must
Sheep/ Goat Pig Cattle	All age groups except the young ones All age groups excepts the	J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination	 Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-



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



MANIPUR BULLETIN

6th October, 2017

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Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Tamenglong (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	
mean relative humidity 88.7 % max and 67.0 % min was recorded	to 97 % (max RH) & 76 % (min RH). The average wind speed may be
in the past three days.	2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice Grain filling to maturity	U		 If the crop is in grain filling stage, maintain water level at 5-8 cm. If the crop has attained maturity then drain out water nearly 15 days before tentative date of harvesting.
		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram & Rice bean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds should be dried to attain required moisture content for storage.
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.
Harting Karry Carry			- 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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.

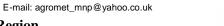




French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation to sowing		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparation and seed collection		 Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area. Select the area with fertile and sandy loam soil rather than with stone and gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome formation		 Mulch the bed with paddy straw or green leaves especially leguminous plants rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera is also useful for controlling shoot borer. Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
Animal Sciences			, <u> </u>
	0		r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ / Duck)) Litter Management	 J Use dry litter material in the shed; j if there is moisture, apply lime powder @ 1kg per 100 ft² area J Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
	All age groups) Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep/ Goat	All age groups) Vaccination) Vaccinate against B.Q./ H.S. this time.) Lambs should be vaccinated against Enterotoxaemia.) Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
Sheep/ Goat	All age groups	,	Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat) De-worming	J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
	All age groups All age groups except the	J De-worming J Shearing for wool J Coccidial infection	J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month.
	All age groups	J De-worming J Shearing for wool J Coccidial infection (Diarrhea)	J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O2) tab twice daily for 5 days.
	All age groups except the	J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. J De-worm with Albendazole @7.5 mg/kg b.wt. J Vaccinate against FMD. J Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups except the	J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination	Lambs should be vaccinated against Enterotoxaemia. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti- <i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period
Pig	All age groups except the young ones All age groups excepts the	J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	 J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. J Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. J De-worm with Albendazole @7.5 mg/kg b.wt. J Vaccinate against FMD. J Sprayer of Anti-<i>Psoroptic</i> may be used J Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. J Cases of H.S. may be encountered during this period J Immediate treatment using appropriate drugs with the help of Consultant must
Sheep/ Goat Pig Cattle	All age groups except the young ones All age groups excepts the	J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination	 J Lambs should be vaccinated against Enterotoxaemia. J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. J Sheep should be sheared during this month. J Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. J De-worm with Albendazole @7.5 mg/kg b.wt. J Vaccinate against FMD. J Sprayer of Anti-<i>Psoroptic</i> may be used J Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. J Cases of H.S. may be encountered during this period J Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. J De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-



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





MANIPUR BULLETIN

6th October, 2017

<u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Thoubal (7 th to 11 th October, 2017)
Observed mainly clear to partly cloudy but mainly cloudy during	
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places
during past three days. Maximum temperature range of 30.3 to	during next five days with mainly cloudy to overcast sky and maximum
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with	temp. 32 ° C & minimum temp. 22 ° C. Relative humidity may reach up
mean relative humidity 88.7 % max and 67.0 % min was recorded	
in the past three days.	2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- If the crop is in grain filling stage, maintain water level at 5-8 cm.
	Grain filling to		- If the crop has attained maturity then drain out water nearly 15 days before
Diag	maturity		tentative date of harvesting.
Rice		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of
			water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
			should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept
			for 3-4 days to increase maturity.
Blackgram &	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
Rice bean			should be dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.



"Gramin Krishi Mausam Seva"



French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits
	Land		etc. had been harvested and where there is proper drainage facility.
Broad bean	preparation to		Recommended varieties for French bean are – Pant Anupam, Anupam (to be
	sowing		planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted
			at a spacing of 30cm x 60cm with 2-3 seeds per hill).
			For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparatio	n	- Land preparation for planting potato for early crop and also for production of
	and seed		seed may be started after the rains in foothills and upland area.
	collection		- Select the area with fertile and sandy loam soil rather than with stone and
			gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome		- Mulch the bed with paddy straw or green leaves especially leguminous plan
	formation		rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (ric
			in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera
			also useful for controlling shoot borer.
			- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrier availability. Apply Trichoderma along with bio-fertilizer (Azospiriliun
			Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval
		Shoot boler	twice or thrice depending upon the severity of incidence.
Animal Sciences			
	ing water to hirds	and animals Avoid water	r logging around the sheds as it may help in mosquito breeding.
			and around the birds/ animals sheds.
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		Management	
	All age groups	Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with
			half of the dose in empty stomach
		J Litter Management	Use dry litter material in the shed;
Poultry (Chicken/ / Duck)) Litter Management	\int if there is moisture, apply lime powder @ 1kg per 100 ft ² area
) Litter Management	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time,
) if there is moisture, apply lime powder @ 1kg per 100 ft² area) Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
	All age groups	J Litter Management	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time.
Duck)	All age groups	JVaccination) if there is moisture, apply lime powder @ 1kg per 100 ft² area) Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately) Vaccinate against B.Q./ H.S. this time.) Lambs should be vaccinated against Enterotoxaemia.
	All age groups		 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time.
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Duck)	All age groups	J Vaccination J De-worming J Shearing for wool	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. j Sheep should be sheared during this month.
Duck)		J Vaccination J De-worming J Shearing for wool J Coccidial infection	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
Duck) Sheep/ Goat	All age groups	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea)	 if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days.
Duck) Sheep/ Goat	All age groups except the	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. j Sheep should be sheared during this month. j Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. j De-worm with Albendazole @7.5 mg/kg b.wt.
Duck) Sheep/ Goat	All age groups	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. j Sheep should be sheared during this month. j Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. j De-worm with Albendazole @7.5 mg/kg b.wt. j Vaccinate against FMD.
Duck) Sheep/ Goat	All age groups except the young ones	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. j Sheep should be sheared during this month. j Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. j De-worm with Albendazole @7.5 mg/kg b.wt. j Vaccinate against FMD. j Sprayer of Anti-<i>Psoroptic</i> may be used
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Duck) Sheep/ Goat	All age groups except the young ones All age groups excepts the	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. j Sheep should be sheared during this month. j Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. j De-worm with Albendazole @7.5 mg/kg b.wt. j Vaccinate against FMD. j Sprayer of Anti-<i>Psoroptic</i> may be used j Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. j Cases of H.S. may be encountered during this period
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Duck) Sheep/ Goat Pig	All age groups except the young ones All age groups excepts the	 J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination 	 j if there is moisture, apply lime powder @ 1kg per 100 ft² area j Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately j Vaccinate against B.Q./ H.S. this time. j Lambs should be vaccinated against Enterotoxaemia. j Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. j Sheep should be sheared during this month. j Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. j De-worm with Albendazole @7.5 mg/kg b.wt. j Vaccinate against FMD. j Sprayer of Anti-<i>Psoroptic</i> may be used j Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. j Cases of H.S. may be encountered during this period j Immediate treatment using appropriate drugs with the help of Consultant mus be advocated to safe the animals.
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Duck) Sheep/ Goat Pig	All age groups except the young ones All age groups excepts the	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination J Deworming	 if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. Ofloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant mus be advocated to safe the animals. De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Duck) Sheep/ Goat Pig	All age groups except the young ones All age groups excepts the	 J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination 	 if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Duck) Sheep/ Goat Pig	All age groups except the young ones All age groups excepts the	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination J Deworming	 if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant mus be advocated to safe the animals. De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies
Duck) Sheep/ Goat Pig	All age groups except the young ones All age groups excepts the	J Vaccination J De-worming J Shearing for wool J Coccidial infection (Diarrhea) J De-worming J Vaccination J Skin disease J Vaccination J Deworming	 if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia. Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. Sheep should be sheared during this month. JOfloxacine/ Ornidazole (O₂) tab twice daily for 5 days. De-worm with Albendazole @7.5 mg/kg b.wt. Sprayer of Anti-<i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant mus be advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.

J Forage/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.



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



MANIPUR BULLETIN

6th October, 2017

E-mail: agromet_mnp@yahoo.co.uk

<u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (3 rd to 5 th October, 2017)	Weather forecast for next five days of Ukhrul (7 th to 11 th October, 2017)	
Observed mainly clear to partly cloudy but mainly cloudy during		
morning hours of 3 rd Oct sky and 3.4 mm rainfall was recorded	Likely to have heavy rains on Saturday and Sunday at isolated places	
during past three days. Maximum temperature range of 30.3 to		
31.3 °C and minimum temperature range of 20.7 to 22.0 °C with		
mean relative humidity 88.7 % max and 67.0 % min was recorded		
in the past three days.	2 km/hr.	

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
			- If the crop is in grain filling stage, maintain water level at 5-8 cm.
	Grain filling to		- If the crop has attained maturity then drain out water nearly 15 days before
Rice	maturity		tentative date of harvesting.
Kice		Aphid, mealy bugs	- Spray Fipronil @ 2g/15 litres or Imidachloprid 17.8 SL @ 7 ml/ 15 litres of
			water.
		Plant hopper	- Spray Imidachlorpid @7 ml/ 15 lit of water.
Soybean	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
			should be dried to attain required moisture content for storage.
Groundnut	Maturity stage		- Harvesting may be done. For seed purpose, bundling should be done and kept
			for 3-4 days to increase maturity.
Blackgram &	Maturity stage		- Harvesting may be done when the pods turns yellow. After harvesting, seeds
Rice bean			should be dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			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
Pineapple	Planting material collection		- Collect planting material from reliable source for planting.
Mango	Appearance of new flush in bearing trees		At this stage, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or Planth growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litre cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Carrot/ Radish/ Coriander	Sowing		- Radish/ Carrot/ Corriander may be sown after rains.
Tree Bean			 Near the surrounding basin of tree bean plant (of both bearing and pre-bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. 20g Carbofuran 3G/ plant may also be in-corporated if not applied earlier as prophylactic measure.
Cabbage/ Broccoli/ Cauliflower	Nursery		 Nursery site should be fertile, well drained, with no water logging. Provide shift arrangement like temperory rain shelter made up of polythene/ tin/ paddy straw. Temperory roof of the nursery bed should be in the slanting position (6 feet in the East and 4 feet in the west at a height of 4 feet. Apply Captan 50 WP@ 5g/m² after preparation of the nursery bed. After application keep it covered for at least 24-48 hours.
Onion	Sowing/ planting		- Land preparation for sowing of onion (nursery) in the upland areas may be done. Nursery area should be fertile, well drained, with no water logging.





French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation to		etc. had been harvested and where there is proper drainage facility.
	sowing		Recommended varieties for French bean are – Pant Anupam, Anupam (to be
			planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill).
			For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Land preparation and seed	n	 Land preparation for planting potato for early crop and also for production of seed may be started after the rains in foothills and upland area.
	collection		- Select the area with fertile and sandy loam soil rather than with stone and
	concetion		gravel. Collect disease free tuber seed for planting.
Ginger/ Turmeric	Rhizome		- Mulch the bed with paddy straw or green leaves especially leguminous plants
onger, i annere	formation		rich in nitrogen (e.g., leaves of early rice bean in hills) or Acalypha leaves (rich in phosphorus) @ 1-1.25 t/ sangam. Mulching with leaves of Lantana camera is also useful for controlling shoot borer.
			- Pour cowdung slurry or liquid manure to ensure microbial activity and nutrient availability. Apply Trichoderma along with bio-fertilizer (Azospirilium, Azotobacter and PSB, etc.).
		Shoot borer	- Spray <i>Malathion</i> or <i>Monocrotophos</i> @ 1 ml/ lit of water at 21 days interval twice or thrice depending upon the severity of incidence.
Animal Sciences			
			r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half of the dose in empty stomach
Poultry (Chicken/ / Duck)		J Litter Management	Use dry litter material in the shed;
Duck)			\int_{1}^{1} if there is moisture, apply lime powder @ 1kg per 100 ft ² area
			Litter may be come wet due to sudden and unexpected rain during this time,
			wet litter must be replaced immediately
	All age groups) Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep/ Goat			Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Cour) De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Shearing for wool	Sheep should be sheared during this month.
	All age groups) Coccidial infection (Diarrhea)) Ofloxacine/ Ornidazole (O_2) tab twice daily for 5 days.
Pig	except the young ones	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
0		/ Vaccination	/ Vaccinate against FMD.
		Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups) Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
	excepts the		Cases of H.S. may be encountered during this period
	young ones) Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
Cattle) Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	Mixture of mineral/ salts should be added in the feed.
			Avoid the cattle from chiting/biting by Flies
			Adopt tick control measures
) Milk fever in Milch	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
		COW	