

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



MANIPUR BULLETIN

28th July, 2017

E-mail: agromet_mnp@yahoo.co.uk

<u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Thoubal (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
	to overcast sky and maximum temp. 30-31 °C & minimum temp.
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	23 - 25 °C. Relative humidity may reach up to 98 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	74 % (min RH). The average wind speed may be 2-4 km/hr.
recorded in the past three days.	

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. If seedlings are available, complete transplanting before 15th August. Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Then raise water
Alte		Upland area/ hill slopes	 level to 5-8cm. - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect Case worm, borer, leaf folder, thrips Stem borer	Imidachloprid @ 8ml/ 15 litres of water. Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam). - For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Cauliflower	Transplanting to early vegetative (early variety) and sowing of mid season variety.	Rhizome rot Plutella Diamond black moth	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease. - Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants. - Raise mid season varieties.



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

"Gramin Krishi Mausam Seva"

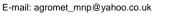


Papaya	Transplanti	ng	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana New Planta Old Plantati			 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit.
			- Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Animal Science	25		pre in poor dramed area for more than 5 6 years.
* Provide clean of	lrinking water for	birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Doultury		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey, Duck)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
Sheep/ Goat	All age groups	Vaccination	ft ² area. - Sheep should be vaccinated against B.Q./ H.S.
Sheep/ Goat	rin ugo groups	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
	All age groups	0	
Pig	except the	Vaccination	- Vaccinate against FMD.
C	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
	young ones	C	kg body weight.
Cattle		Slush & Flood Management	- Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.



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



MANIPUR BULLETIN

28th July, 2017

<u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Ukhrul (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	20 - 22 °C. Relative humidity may reach up to 95 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	
recorded in the past three days.	

Field Crops	-		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/ plot.
Rice			 If seedlings are available, complete transplanting before 15th August. Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Then raise water level to 5-8cm.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips	least three pumps per sangam).
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative (early variety) and	Plutella Diamond black moth	 Transplant healthy seedlings at a spacing of 45cm x 45cm. Check for infestation of Plutella Diamond black moth in young plants.
	sowing of mid season variety.	orack mour	- Raise mid season varieties.



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"Gramin Krishi Mausam Seva"

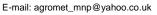


Papaya	Transplanti	ng	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana	New Planta Old Plantat		 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit. Care must be taken to avoid wilting disease in banana grown in same
Animal Science	25		pit in poor drained area for more than 5-6 years.
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Development		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkty/ Duck)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
-		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia	All age groups except the	Vaccination	- Vaccinate against FMD.
Pig	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	 Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.
	1. (b) (° (b) (c) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.



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MANIPUR BULLETIN

28th July, 2017

Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Imphal East (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
recorded during past three days. Maximum temperature range of	to overcast sky and maximum temp. 32 ° C & minimum temp. 21 -
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	22 °C. Relative humidity may reach up to 98 % (max RH) & 66 %
C with mean relative humidity 92.3 % max and 71.3 % min was	(min RH). The average wind speed may be 2-4 km/hr.
recorded in the past three days.	

Field Crops	1	ſ	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. If seedlings are available, complete transplanting before 15th August.
Dias			 Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Then raise water
Rice			level to 5-8cm.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips	least three pumps per sangam).
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative	Plutella Diamond	Transplant healthy seedlings at a spacing of 45cm x 45cm.Check for infestation of Plutella Diamond black moth in young plants.
	(early variety) and sowing of mid season variety.	black moth	- Raise mid season varieties.



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"Gramin Krishi Mausam Seva"



Papaya	Transplanti	ng	- Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m
Tupuyu			for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties
			(Coorg Honey).
			- Legumes may be grown as intercrop in newly established orchard but not chilli
	N. D.		and tomato.
Banana	New Planta		- Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and
	Old Plantat	ion	1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit
			size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant
			one sucker (with broad base & narrow leaves) per pit.
			- Remov extra suckers and maintain 3 plants per pit.
			- Care must be taken to avoid wilting disease in banana grown in same
			pit in poor drained area for more than 5-6 years.
Animal Science			
	drinking water for	birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Poultry		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
(Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey, Duck)			- Bleaching powder may be spread near farm premises.
			- Avoid fungal infested feed.
			- Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft^2 area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
	A 11	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Pig	All age groups except the	Vaccination	- Vaccinate against FMD.
8	young ones	Management	- Provide adequate amount of wholesome water (drinking).
			- Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
Cattle	excepts the	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
	young ones		kg body weight.
		Slush & Flood Management	- Provide clean and wholesome water. Keep animals in safe place.
			Avoid grazing at the periphery of flood. Animals should be protected against
			illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.
		Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	1	which to ver in which cow	

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.



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





MANIPUR BULLETIN

28th July, 2017

Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Imphal West (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
recorded during past three days. Maximum temperature range of	to overcast sky and maximum temp. of 32 - 33 ° C & minimum
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	temp. of 23 - 24 °C. Relative humidity may reach up to 98 % (max
C with mean relative humidity 92.3 % max and 71.3 % min was	RH) & 66 % (min RH). The average wind speed may be 2 km/hr.
recorded in the past three days.	

Field Crops	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage Transplanting to tillering (kharif rice)	Pest and disease Low lying area Upland area/ hill slopes	Agro-meteorological advisories - Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15 th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. - If seedlings are available, complete transplanting before 15 th August. - Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope. - Maintain a thin film of water upto 7 days after transplanting. Then raise water level to 5-8cm. - In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect Case worm, borer, leaf folder, thrips Stem borer	Imidachloprid @ 8ml/ 15 litres of water.Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam) For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	- •	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
Cauliflower	Transplanting to early vegetative (early variety) and sowing of mid season variety.	Rhizome rot Plutella Diamond black moth	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease. - Transplant healthy seedlings at a spacing of 45cm x 45cm. - Check for infestation of Plutella Diamond black moth in young plants. - Raise mid season varieties.

Milk fever in Milch cow

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.

E-mail: agromet_mnp@yahoo.co.uk



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

"Gramin Krishi Mausam Seva"



Papaya	Transplanti	ing	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana New F Old Pl			 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit.
			 Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Animal Science			
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Daraltara		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey, Duck)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft ² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia	All age groups except the	Vaccination	- Vaccinate against FMD.
Pig	young ones	Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	- Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.

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

70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.



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MANIPUR BULLETIN

28th July, 2017

<u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Bishnupur (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
	to overcast sky and maximum temp. 33-34 ° C & minimum temp.
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	23 - 25 °C. Relative humidity may reach up to 97 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	71 % (min RH). The average wind speed may be 2-4 km/hr.
recorded in the past three days.	

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. If seedlings are available, complete transplanting before 15th August. Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope.
D'			- Maintain a thin film of water upto 7 days after transplanting. Then raise water
Rice			level to 5-8cm.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips	least three pumps per sangam).
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		 Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops		I	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative (early variety) and sowing of mid season variety.	Plutella Diamond black moth	 Transplant healthy seedlings at a spacing of 45cm x 45cm. Check for infestation of Plutella Diamond black moth in young plants. Raise mid season varieties.

Milk fever in Milch cow

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.

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

"Gramin Krishi Mausam Seva"



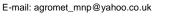
Papaya	Transplanti	ng	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana New Planta Old Planta			 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit.
			- Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Animal Science			
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Doultwy		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey/ Duck)			- Bleaching powder may be spread near farm premises.
			 Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia	All age groups except the	Vaccination	- Vaccinate against FMD.
Pig	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	- Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.

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

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

28th July, 2017

<u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Chandel (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
recorded during past three days. Maximum temperature range of	to overcast sky and maximum temp. 33-34 ° C & minimum temp.
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	23 - 25 ° C. Relative humidity may reach up to 97 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	77 % (min RH). The average wind speed may be 3-4 km/hr.
recorded in the past three days.	

Field Crops	-		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/ plot.
Rice			 If seedlings are available, complete transplanting before 15th August. Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Then raise water level to 5-8cm.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips	least three pumps per sangam).
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			·
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative (early variety) and	Plutella Diamond black moth	 Transplant healthy seedlings at a spacing of 45cm x 45cm. Check for infestation of Plutella Diamond black moth in young plants.
	sowing of mid season variety.	orack mour	- Raise mid season varieties.



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

"Gramin Krishi Mausam Seva"

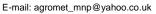


Papaya	Transplanti	ng	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana	New Planta Old Plantat		 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit. Care must be taken to avoid wilting disease in banana grown in same
Animal Science	25		pit in poor drained area for more than 5-6 years.
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Development		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkty/ Duck)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
-		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia	All age groups except the	Vaccination	- Vaccinate against FMD.
<u> </u>	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	 Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.
	1. (b) (° (b) (c) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.



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



MANIPUR BULLETIN

28th July, 2017

Churachandpur

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Churachandpur (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
	to overcast sky and maximum temp. 32-34 ° C & minimum temp.
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	24 - 25 °C. Relative humidity may reach up to 98 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	77 % (min RH). The average wind speed may be 2-3 km/hr.
recorded in the past three days.	

Field Crops	1	ſ	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. If seedlings are available, complete transplanting before 15th August.
Rice			 Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope. Maintain a thin film of water upto 7 days after transplanting. Then raise water
hite		TT 1 1 /1·11	level to 5-8cm.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips	least three pumps per sangam).
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative (early variety) and sowing of mid	Plutella Diamond black moth	 Transplant healthy seedlings at a spacing of 45cm x 45cm. Check for infestation of Plutella Diamond black moth in young plants. Raise mid season varieties.
	season variety.		



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

"Gramin Krishi Mausam Seva"



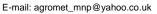
Papaya	Transplant	ing	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana New Planta Old Planta			- Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit.
			 Remov extra suckers and maintain 3 plants per pit. Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Animal Science	25		
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Devila		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkey/ Duck)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
±.		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dig	All age groups except the	Vaccination	- Vaccinate against FMD.
-	young ones	Management	Provide adequate amount of wholesome water (drinking).Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
excepts th	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Slush & Flood Management	- Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water

Milk fever in Milch cow70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.

this time. Do not allow to drink flood water.



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





MANIPUR BULLETIN

28th July, 2017

<u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Senapati (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
recorded during past three days. Maximum temperature range of	
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	20 - 22 °C. Relative humidity may reach up to 96 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	
recorded in the past three days.	

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. If seedlings are available, complete transplanting before 15th August. Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope.
Rice			- Maintain a thin film of water upto 7 days after transplanting. Then raise water
Mee		Upland area/ hill	level to 5-8cm.- In upland area, hand weeding may be done. Off-type plants must be removed.
		slopes	Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips	least three pumps per sangam).
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder		- The seeds may be sown if the water level goes down. Recommended rice var. RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops		I	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative (early variety) and sowing of mid season variety.	Plutella Diamond black moth	 Transplant healthy seedlings at a spacing of 45cm x 45cm. Check for infestation of Plutella Diamond black moth in young plants. Raise mid season varieties.



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

"Gramin Krishi Mausam Seva"

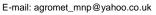


Papaya	Transplanti	ng	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana	New Planta Old Plantat		 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit. Care must be taken to avoid wilting disease in banana grown in same
Animal Science			pit in poor drained area for more than 5-6 years.
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
Devilterer		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/ Turkey/ Duck)		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Turkty/ Duck)			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
Dia	All age groups except the	Vaccination	- Vaccinate against FMD.
0	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle		Slush & Flood Management	 Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.
	1. (b) (° (b) (c) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.



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





MANIPUR BULLETIN

28th July, 2017

Tamenglong

Significant past weather for the preceding bi-weekly of Imphal - West (25 th to 27 th July, 2017)	Weather forecast for next five days of Tamenglong (29 th July to 2 nd August, 2017)
Observed mainly cloudy to overcast sky and 0.3 mm rainfall was	Likely to have heavy rains on 30 th and 31 st July with mainly cloudy
	to overcast sky and maximum temp. 32-33 ° C & minimum temp.
29.0 to 30.8 °C and minimum temperature range of 22.2 to 23.2 °	23 - 24 °C. Relative humidity may reach up to 98 % (max RH) &
C with mean relative humidity 92.3 % max and 71.3 % min was	
recorded in the past three days.	

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Transplanting to tillering (kharif rice)	Low lying area	 Gap filling may be done immediately in the flood affected fields. Plant 2-3 old seedlings (40-45days old) per hill. To have more tillers, avoid excess water in the field. Seedling of rice may also be raised using dry bed method with RC Maniphou-12 or RC Maniphou 7 for transplanting before 15th August. Prepare 20 plots for transplanting in a hectare field. Plot size is 4 x 20 feet and sow seeds @ 2kg/plot. If seedlings are available, complete transplanting before 15th August. Row planting of 2-3 seedlings (25-35 days old) per hill may be done at 25 x 10cm using beaded rope.
Rice			- Maintain a thin film of water upto 7 days after transplanting. Then raise water level to 5-8cm.
		Upland area/ hill slopes	- In upland area, hand weeding may be done. Off-type plants must be removed. Then top dressing may be done.
		Any sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Case worm, borer,	Coragen @3ml/15 lit of water or lambdacyhothrin @ 15ml/ 15 litre of water (at
		leaf folder, thrips Stem borer	least three pumps per sangam). - For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding	Stem borer	- The seeds may be sown if the water level goes down. Recommended rice var.
	with drum seeder		RC Maniphou-7. Treat seed with Humicil @ 5ml/kg seed. Puddle the field and level properly. Drain out water 24 hrs before sowing. Use just pre-germinated seeds.
Maize	Vegetative		- Weeding may be done to avoid insect pest in the crop field and also avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars during vegetative stage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger	Vegetative to rhizome formation		Water soaked lesions may develop at the base of the pseudo-stem. Later on rotting may spread to the rhizome. To prevent it spray Redomil MZ72 W.P. @ 2 g/ lit of water at 15 days interval for 2-3 times.
		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Cauliflower	Transplanting to early vegetative (early variety) and sowing of mid season variety.	Plutella Diamond black moth	 Transplant healthy seedlings at a spacing of 45cm x 45cm. Check for infestation of Plutella Diamond black moth in young plants. Raise mid season varieties.

Milk fever in Milch cow

Apply Agri lime in the fish culture pond after the water level reaches normal depth after flood @ 30-35 kg /ha at 30days interval.

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Papaya	Transplanti	ng	 Transplant 2 months old seedlings with spacing of 1.5-2.0 m x 1.5-2.0 m for dwarf varieties (Ranchi dwarf/ Pusa dwarf) and 2.5m x 2.5m for tall varieties (Coorg Honey). Legumes may be grown as intercrop in newly established orchard but not chilli and tomato.
Banana	New Plantation Old Plantation		 Plant at a spacing of 2.7m x 3m for tall varieties (Nendran group) and 1.8m x 2.4m or 1.8m x 2.4m for dwarf varieties (Cavendish group). Pit size: 2x2x2 feet. Fill up the pit with soil & FYM in the ratio 3:2. Plant one sucker (with broad base & narrow leaves) per pit. Remov extra suckers and maintain 3 plants per pit.
			- Care must be taken to avoid wilting disease in banana grown in same pit in poor drained area for more than 5-6 years.
Animal Science			
		birds and animals.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Fowl Pox	Vaccinate against fowl pox.
		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
			 Bleaching powder may be spread near farm premises. Avoid fungal infested feed. Use dry litter material in the shed, if moist apply lime powder @ 1kg per 100
			ft^2 area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
Pig	All age groups except the	De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
		Vaccination	- Vaccinate against FMD.
	young ones	Management	 Provide adequate amount of wholesome water (drinking). Essential body salts may be provided.
Cattle	All age groups	B.Q. & H.S.	Vaccinate against B.Q., F.M.D. & H.S.
	excepts the young ones	Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Slush & Flood Management	 Provide clean and wholesome water. Keep animals in safe place. Avoid grazing at the periphery of flood. Animals should be protected against illness caused due to damp weather. Mineral mixtures/vitamins should be fed at this time. Do not allow to drink flood water.

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

70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.