

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 24th July, 2017)

Observed mainly cloudy to overcast sky but partly cloudy during afternoon hours of $21^{\rm st}$ to morning hours of $22^{\rm nd}$ July and **28.8 mm** rainfall was recorded during past four days. Maximum temperature range of 27.8 to 30.2 °C and minimum temperature range of 21.3 to 23.4 °C with mean relative humidity 93.0 % max and 75.3 % min was recorded in the past four days.

Weather forecast for next five days of Tamenglong $(26^{th}\ to\ 30^{th}\ July,\ 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 31 - 32 $^{\rm o}$ C & minimum temp. 23 - 24 $^{\rm o}$ C. Relative humidity may reach up to 98 % (max RH) & 78 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops		Г	
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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
Rice			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
		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		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
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		<u>, </u>	
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.



All age groups

All age groups

All age groups

except the

young ones

excepts the

young ones

Sheep/ Goat

Pig

Cattle

Vaccination

De-worming

Vaccination

Management

B.Q. & H.S.

Deworming

Slush & Flood Management

Milk fever in Milch cow

ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflowe	Nursery Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White
			shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science			
	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.
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.
	A 11	37	G1 1 111 1 1 1 1 D C / H C

- Sheep should be vaccinated against B.Q./ H.S.

- Essential body salts may be provided.

Vaccinate against B.Q., F.M.D. & H.S.

this time. Do not allow to drink flood water.

- Provide adequate amount of wholesome water (drinking).

- Vaccinate against FMD.

kg body weight.

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

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

Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100

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

- Provide clean and wholesome water. Keep animals in safe place.

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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

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Weather forecast for next five days of Thoubal $(26^{th} to 30^{th} July, 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 30 - 32 $^{\circ}$ C & minimum temp. 23 - 24 $^{\circ}$ C. Relative humidity may reach up to 97 % (max RH) & 92 % (min RH). The average wind speed may be 4 km/hr.

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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
	D: 1:	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		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	ut.	J
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.



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		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflow	er Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
1 4551011 1 1 411		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area.
			Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science	es .		
* Provide clean	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.
Doultur		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next 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.
Pig	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 the	Deworming Deworming	Use Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100
C-441.	young ones	CL 1 0 FL 1M	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
		Milk fever in Milch cow	this time. Do not allow to drink flood water. 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
			, o room of a mixture of cut and recophorus during to radiys.

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

SMS:

Lakliba Nongmajing faoba nong khara chuba yai. Eshing thumjinbada shikhiba phou pambi gi mafamda numit 40-45ni shuraba louhon leiradi thadokpiyu. Pambi mashing khara yamnaba loufamda eshing yamdana thambiyu. Sitafol mahei pumba ngakthoknaba eshing litre amada 2g Metalxyl + Mancozeb happaga chayol ama kannaraga chaibiyu.



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MANIPUR BULLETIN

25th July, 2017

Ukhrul

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Weather forecast for next five days of Ukhrul (26th to 30th July, 2017)

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 32 - 33 $^{\circ}$ C & minimum temp. 24 - 23 $^{\circ}$ C. Relative humidity may reach up to 93 $^{\circ}$ C (min RH). The average wind speed may be 2-3 km/hr.

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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
Rice			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
	D' ' I'	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		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	ut.	J
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.



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	Rhizome rot		Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflow	er Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit Fruiting		Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
1 4551011 1 1 414		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science	es .	,	
* Provide clean	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.
Da14		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.
Pig	All age groups except the	Vaccination	- Vaccinate against FMD.
11g	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.
A	* 41 C*-1 14	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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"Gramin Krishi Mausam Seva"



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25th July, 2017

Imphal East

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Weather forecast for next five days of Imphal East $(26^{th}\ to\ 30^{th}\ July,\ 2017)$

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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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
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		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain. - For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
	Direct seeding with drum seeder	Stem borer	- For stein boter, spray Chrorantraninprof 23.5% @ 40 mi/na. - 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.
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Blackgram & Rice bean	Vegetative		- Avoid sowing in water logged fields. Also, avoid hairy caterpillars.
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Horticulture Crops	-1	-L	,
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflowe	er Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit
		F 1 1'	water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science	ng.	Greening	- Spray Sueprocycline @ 1g/10 lit of water of Tetracycline@3g/10 little water.
		birds and animals	
* Provide clean drinking water for bi Name of bird/ Stage		Disease and Management	Agro-meteorological advisories
animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
T		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day
Turkey/ Duck)		2000000000	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.
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 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.

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

SMS:

Lakliba Nongmajing faoba nong khara chuba yai. Eshing thumjinbada shikhiba phou pambi gi mafamda numit 40-45ni shuraba louhon leiradi thadokpiyu. Pambi mashing khara yamnaba loufamda eshing yamdana thambiyu. Sitafol mahei pumba ngakthoknaba eshing litre amada 2g Metalxyl + Mancozeb happaga chayol ama kannaraga chaibiyu.

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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Imphal West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 24th July, 2017)

Observed mainly cloudy to overcast sky but partly cloudy during afternoon hours of $21^{\rm st}$ to morning hours of $22^{\rm nd}$ July and **28.8 mm** rainfall was recorded during past four days. Maximum temperature range of 27.8 to 30.2 °C and minimum temperature range of 21.3 to 23.4 °C with mean relative humidity 93.0 % max and 75.3 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West $(26^{th}\ to\ 30^{th}\ July,\ 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 30 - 32 $^{\circ}$ C & minimum temp. 22 - 23 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 83 % (min RH). The average wind speed may be 2-4 km/hr.

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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
	D: 1:	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		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1	ut.	J
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflowe	er Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit
		F 1 1'	water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science	ng.	Greening	- Spray Sueprocycline @ 1g/10 lit of water of Tetracycline@3g/10 little water.
		birds and animals	
* Provide clean drinking water for bi Name of bird/ Stage		Disease and Management	Agro-meteorological advisories
animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Fowl Pox	Vaccinate against fowl pox.
T		Coccidiosis	- Give Amprolium Powder @2g/lit of drinking water for 5 to 7 days.
Poultry (Chicken/		Deworming	- Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day
Turkey/ Duck)		2000000000	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.
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 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.

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

SMS:

Lakliba Nongmajing faoba nong khara chuba yai. Eshing thumjinbada shikhiba phou pambi gi mafamda numit 40-45ni shuraba louhon leiradi thadokpiyu. Pambi mashing khara yamnaba loufamda eshing yamdana thambiyu. Sitafol mahei pumba ngakthoknaba eshing litre amada 2g Metalxyl + Mancozeb happaga chayol ama kannaraga chaibiyu.

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.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 24th July, 2017)

Observed mainly cloudy to overcast sky but partly cloudy during afternoon hours of $21^{\rm st}$ to morning hours of $22^{\rm nd}$ July and **28.8 mm** rainfall was recorded during past four days. Maximum temperature range of 27.8 to 30.2 °C and minimum temperature range of 21.3 to 23.4 °C with mean relative humidity 93.0 % max and 75.3 % min was recorded in the past four days.

Weather forecast for next five days of Bishnupur $(26^{th} to 30^{th} July, 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 32 - 34 $^{\circ}$ C & minimum temp. 24 - 26 $^{\circ}$ C. Relative humidity may reach up to 97 % (max RH) & 86 % (min RH). The average wind speed may be 2-4 km/hr.

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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
Rice			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
	D' ' I'	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		 At knee height stage, apply urea @ 43 kg Urea/ ha after rains. Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1		J
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflower Nursery			- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit
			water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science	es .		
	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.
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.
		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.
	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.

SMS:

Lakliba Nongmajing faoba nong khara chuba yai. Eshing thumjinbada shikhiba phou pambi gi mafamda numit 40-45ni shuraba louhon leiradi thadokpiyu. Pambi mashing khara yamnaba loufamda eshing yamdana thambiyu. Sitafol mahei pumba ngakthoknaba eshing litre amada 2g Metalxyl + Mancozeb happaga chayol ama kannaraga chaibiyu.

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.

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

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

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

this time. Do not allow to drink flood water.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 24th July, 2017)

Observed mainly cloudy to overcast sky but partly cloudy during afternoon hours of $21^{\rm st}$ to morning hours of $22^{\rm nd}$ July and **28.8 mm** rainfall was recorded during past four days. Maximum temperature range of 27.8 to 30.2 °C and minimum temperature range of 21.3 to 23.4 °C with mean relative humidity 93.0 % max and 75.3 % min was recorded in the past four days.

Weather forecast for next five days of Chandel $(26^{th} to 30^{th} July, 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 30 - 32 $^{\circ}$ C & minimum temp. 22 - 23 $^{\circ}$ C. Relative humidity may reach up to 96 % (max RH) & 87 % (min RH). The average wind speed may be 2-4 km/hr.

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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
		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		 - At knee height stage, apply urea @ 43 kg Urea/ ha after rains. - Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1		<u>.</u>
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflowe	Nursery Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Vegeta Lemon			Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Sciences	S		
	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.
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/ Buck)			 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.
	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.
	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 kg body weight.
	young ones		
Cattle	young ones	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.

SMS:

Lakliba Nongmajing faoba nong khara chuba yai. Eshing thumjinbada shikhiba phou pambi gi mafamda numit 40-45ni shuraba louhon leiradi thadokpiyu. Pambi mashing khara yamnaba loufamda eshing yamdana thambiyu. Sitafol mahei pumba ngakthoknaba eshing litre amada 2g Metalxyl + Mancozeb happaga chayol ama kannaraga chaibiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 24th July, 2017)

Observed mainly cloudy to overcast sky but partly cloudy during afternoon hours of $21^{\rm st}$ to morning hours of $22^{\rm nd}$ July and **28.8 mm** rainfall was recorded during past four days. Maximum temperature range of 27.8 to 30.2 °C and minimum temperature range of 21.3 to 23.4 °C with mean relative humidity 93.0 % max and 75.3 % min was recorded in the past four days.

Weather forecast for next five days of Churachandpur $(26^{th}\ to\ 30^{th}\ July,\ 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 32 - 33 $^{\rm o}$ C & minimum temp. 23 - 24 $^{\rm o}$ C. Relative humidity may reach up to 98 % (max RH) & 80 % (min RH). The average wind speed may be 2 km/hr.

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. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
			 If transplanting was not done then complete transplanting before 15th August if seedlings is available. Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
	Direct seeding	Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha. - 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		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 - Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. - Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. - 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.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	1		<u>,</u>
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflowe	er Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m ² of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area. Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science	es .		
* Provide clean	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.
Da14		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/ Buck)			- 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.
Pig		De-worming	- De-worming of animals should be done using Albendazole @7.5 mg/kg b.wt.
	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.
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	
		2511 0 1 2511 1	To 100 I C C I D I C I C C T I D C T T I

SMS:

Lakliba Nongmajing faoba nong khara chuba yai. Eshing thumjinbada shikhiba phou pambi gi mafamda numit 40-45ni shuraba louhon leiradi thadokpiyu. Pambi mashing khara yamnaba loufamda eshing yamdana thambiyu. Sitafol mahei pumba ngakthoknaba eshing litre amada 2g Metalxyl + Mancozeb happaga chayol ama kannaraga chaibiyu.

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.

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

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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

25th July, 2017

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 26th to 30th July, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 24th July, 2017)

Observed mainly cloudy to overcast sky but partly cloudy during afternoon hours of $21^{\rm st}$ to morning hours of $22^{\rm nd}$ July and **28.8 mm** rainfall was recorded during past four days. Maximum temperature range of 27.8 to 30.2 °C and minimum temperature range of 21.3 to 23.4 °C with mean relative humidity 93.0 % max and 75.3 % min was recorded in the past four days.

Weather forecast for next five days of Senapati $(26^{th} to 30^{th} July, 2017)$

Likely to have light rains at isolated places with partly cloudy to overcast sky and maximum temp. 30 - 32 $^{\circ}$ C & minimum temp. 23 - 24 $^{\circ}$ C. Relative humidity may reach up to 95 % (max RH) & 82 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops		,	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Transplanting to tillering (kharif rice)	Low lying area	 - Gap filling may be done immediately in the flood affected fields. - 2-3 old seedlings (40-45days old) should be planted per hill. - For flooded areas, contingency nurseries with late variety/ cold tolerant variety RC Maniphou 7 may be raised. - Seedling of rice may also be raised using dry bed method with RC Maniphou-12 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. - To have more tillers, avoid excess water in the field.
			 - If transplanting was not done then complete transplanting before 15th August if seedlings is available. - Uproot 25-35 days old seedlings. About 1200-1300 bundles of seedlings (40cm diameter) are required for transplanting in one hectare area. Row planting of 2-3 seedlings 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 of one-third of N and potash should be done at 25 days of transplanting after draining out complete water. After 48hrs of fertilization, the field should be re-irrigated maintaining depth of 5cm.
		Thrips	Spray Lambdacyhothrin 5% EC @ 15ml/15 litres of water after rain.
	D:	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		- At knee height stage, apply urea @ 43 kg Urea/ ha after rains Measures must be taken to avoid water logging in the crop field.
Soybean / Groundnut	Vegetative		 Earthing-up and thinning may be done at 30 to 40 days after sowing of crop after rain. Avoid leaf eating caterpillars/ insects at least upto 60 days after sowing. 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.
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.



Manipur Centre, Lamphelpat, Imphal - 795 004





		Rhizome rot	Spray Dithane M-45 @ 2.5 gm/ lit of water to prevent rhizome rot disease.
Early Cauliflowe	Nursery Nursery		- For nursery rising of early cauliflower in 10-15cm high beds under temporary rain shelter, apply 1-2 kg FYM/ m^2 of nursery bed. Drench the soil with Carbendazim or Captan 50 W.P. Select early varieties like Early Himlata, White
			shot, etc.
Passion Fruit	Fruiting	Fruit rot	Spray Metalxyl + Mancozeb @ 2 g/lit water at 7 days interval.
		Anthracnose	Spray Carbendazim 12% + Mencozeb 63% WP @1 mg/lit of water.
		Collar rot	Drench the soil of collar region with 1% Bordeaux mixture.
		Brown spot	- Remove the infected leaves and burn and spray Zineb @ 2 mg/ lit of water.
		Termite	Apply Chloropyriphos 10%G @ 25kg/ha into the soil.
		Fruit fly	Apply poison baiting with Jaggary + fruit juice + Malathion (20:20:1) @ 40-50 baits/ ha.
		Thrips	Spray Imidachloprid 17.8% SL @ 1ml/ lit of water.
Orange/Lime/ Lemon	Vegetative		Apply 650g Urea, 1250g SSP and 450g MOP per tree in circular trench around the trunk. Spray Carbendazim @2g/lit water or Metalxyl + Mencozeb @ 2.5 g/lit water on sunny day. After 7 days spray Imidachloprid @ 5ml/ 10 lit of water.
		Fungal diseases	Prune the disease infected twigs and burn them outside the farm area.
			Spray Copper oxychloride @ 3ml/lit to control fungal disease.
		Greening	- Spray Streptocycline @ 1g/10 lit of water or Tetracycline@5g/10 litre water.
Animal Science			
		birds and animals.	7
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 ft² area.
Sheep/ Goat	All age groups	Vaccination	- Sheep should be vaccinated against B.Q./ H.S.
Jacob, Jacob		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.
	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.
		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.