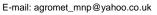


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

## **27<sup>th</sup> April, 2018**

## <u>Bishnupur</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Bishnupur (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was recorded in the past three days.	days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the cr	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	For Rabi Maize Vegetative to flowering & silk		<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparatio and seed collect		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundr Blackgram/ Redgr			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	ops	<u>.</u>	
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting vegetative	to	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparati for planting	on	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds * Disinfect the far	s of birds and animals m premises of all live	s to protect from strong wind stock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		<ul> <li>Coccidiosis</li> </ul>	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.

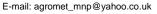




Sheep/ Goat	All age groups	• Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
		_	• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultiva	ation: Berseem/ oat cro	p may be sown immediately.	
	ation: Berseem/ oat cro	pp may be sown immediately.	·
Fishery			
Fishery * New fish pond	s may be made or old	ones may be renovated/ clear	ned before for large scale fish culture.
<i>Fishery</i> * New fish pond * Care must be t	s may be made or old aken for newly rain fee	ones may be renovated/ clear d ponds by liming for stockin	ned before for large scale fish culture. Ig fish fries/ fingerlings or yearlings.
<i>Fishery</i> * New fish pond * Care must be t	s may be made or old aken for newly rain fee	ones may be renovated/ clear d ponds by liming for stockin	ned before for large scale fish culture.
Fishery * New fish pond * Care must be t * Intensive care Type of	s may be made or old aken for newly rain fe must be taken for fish	ones may be renovated/ clear d ponds by liming for stockin brooders by keeping them in	hed before for large scale fish culture. ag fish fries/ fingerlings or yearlings. separate ponds. It must be provided with balanced feed and good quality water. Agro-metrological advisories Ponds water should be clean and clear free from unwanted vegetation and insects
Fishery * New fish pond * Care must be t * Intensive care Type of Farming	Is may be made or old aken for newly rain fe must be taken for fish Stage	ones may be renovated/ clear d ponds by liming for stockin brooders by keeping them in management	<ul> <li>hed before for large scale fish culture.</li> <li>hed before for large scale fish culture.</li> <li>her fish fries/ fingerlings or yearlings.</li> <li>separate ponds. It must be provided with balanced feed and good quality water.</li> <li>Agro-metrological advisories</li> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> </ul>
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Fishery * New fish pond * Care must be t * Intensive care Type of Farming Carp culture	ls may be made or old aken for newly rain fer must be taken for fish Stage nurseries Grow -out	ones may be renovated/ clear d ponds by liming for stockin brooders by keeping them in management Pond and water Feed Fish Pond and water Fish	<ul> <li>hed before for large scale fish culture.</li> <li>heg fish fries/ fingerlings or yearlings.</li> <li>separate ponds. It must be provided with balanced feed and good quality water.</li> <li>Agro-metrological advisories</li> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish</li> </ul>
Fishery * New fish pond * Care must be t * Intensive care Type of Farming Carp culture Paddy cum fish culture	s may be made or old aken for newly rain fer must be taken for fish Stage nurseries Grow -out Field	ones may be renovated/ clear d ponds by liming for stockin brooders by keeping them in management Pond and water Feed Fish Pond and water Fish	<ul> <li>hed before for large scale fish culture.</li> <li>heg fish fries/ fingerlings or yearlings.</li> <li>separate ponds. It must be provided with balanced feed and good quality water.</li> <li>Agro-metrological advisories</li> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> </ul>
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

## 27<sup>th</sup> April, 2018

### <u>Chandel</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Chandel (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from <b>27.3</b> to <b>29.8</b> °C and minimum of <b>14.0</b> to <b>17.5</b> °C with mean relative humidity <b>81.3</b> % max and <b>29.3</b> % min was recorded in the past three days.	cloudy to overcast sky with maximum temp. <b>28</b> °C & minimum temp. <b>14</b> °C. Relative humidity may reach up to <b>78</b> % (max RH) & <b>25</b> % (min RH). The average wind speed may be <b>2-3 km/hr</b> .

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the cro	p Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silkin	ng	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparation and seed collection	ı on	Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnu Blackgram/ Redgram			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crop	<i>75</i>		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmer	ric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative	0	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting	on	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
		to protect from strong wind tock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry A (Chicken/ Duck)	ll age groups	Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.

• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.

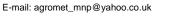




Sheep/ Goat	All age groups	• Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
		_	• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultiva	ation: Berseem/ oat cro	p may be sown immediately.	
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

### **Churachandpur**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Churachandpur (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was	cloudy to overcast sky with maximum temp. <b>29-30</b> °C & minimum temp. <b>15-16</b> °C. Relative humidity may reach up to <b>97</b> % (max RH)
recorded in the past three days.	& 31 % (min RH). The average wind speed may be 2-4 km/hr.

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	For Rabi Maize Vegetative to flowering & silk	ing	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparatio and seed collecti		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundn Blackgram/ Redgra			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	pps		
Name of the cro	p Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting t vegetative	0	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting	on	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
<b>Animal Sciences</b>			
		to protect from strong wind stock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.

• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.





Sheep/ Goat	All age groups	• Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
		_	• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultiva	ation: Berseem/ oat cro	p may be sown immediately.	
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

### Imphal East

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Imphal East (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was	cloudy to overcast sky with maximum temp. <b>29-30</b> °C & minimum temp. <b>15-16</b> °C. Relative humidity may reach up to <b>91</b> % (max RH)
recorded in the past three days.	& 30 % (min RH). The average wind speed may be 3-4 km/hr.

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silk	ing	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparatio and seed collecti		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundn Blackgram/ Redgra			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	ops		
Name of the cro	p Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting t vegetative	0	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		<ul> <li>Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.</li> </ul>
Colocasia	Land preparation for planting	on	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
		to protect from strong wind stock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.

• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.

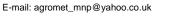




Sheep/ Goat	All age groups	• Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
		_	• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultiva	ation: Berseem/ oat cro	p may be sown immediately.	
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

### Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Imphal West (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was	cloudy to overcast sky with maximum temp. <b>29-30</b> °C & minimum temp. <b>15-16</b> °C. Relative humidity may reach up to <b>97</b> % (max RH)
recorded in the past three days.	& <b>39 %</b> (min RH). The average wind speed may be <b>2-4 km/hr</b> .

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silk	ing	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparatio and seed collecti		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundn Blackgram/ Redgra			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	ops		
Name of the cro	p Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting t vegetative	0	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		<ul> <li>Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.</li> </ul>
Colocasia	Land preparation for planting	on	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
		to protect from strong wind stock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.

• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.

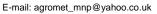




Sheep/ Goat	All age groups	• Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
		_	• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultiva	ation: Berseem/ oat cro	p may be sown immediately.	
	ation: Berseem/ oat cro	pp may be sown immediately.	·
Fishery			
Fishery * New fish pond	s may be made or old	ones may be renovated/ clear	ned before for large scale fish culture.
<i>Fishery</i> * New fish pond * Care must be t	s may be made or old aken for newly rain fee	ones may be renovated/ clear d ponds by liming for stockin	ned before for large scale fish culture. Ig fish fries/ fingerlings or yearlings.
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

### <u>Senapati</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Senapati (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was	cloudy to overcast sky with maximum temp. 26 °C & minimum temp. 12-13 °C. Relative humidity may reach up to 87 % (max RH)
recorded in the past three days.	& 38 % (min RH). The average wind speed may be 3-4 km/hr.

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

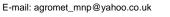
Field Crops			
Name of the cr	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water
TTC Murn Mcc	Thiering		if accumulated due to rain in crop field.
	For Rabi Maiz	e	- Drainage may be constructed well to avoid water logging in and around the
	Vegetative to		crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed
Maize	flowering & sil	king	winds.
	Kharif maize		Land preparation for maize cultivation can be started after rains.
	Land preparate		Procure disease free quality seeds from reliable source.
Soybean/ Groundr	and seed collection		- Collect good quality seeds from reliable source for sowing.
Blackgram/ Redgr			- Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may
Diackgruin/ Keugi		non	be started after rains.
			For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and
	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		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 Cro			
Name of the cro		Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting	; to	For the crops in vegetative stage, proper staking may be done to avoid plants to
	vegetative		have direct contact with soil especially during rainy days.
			Avoid water logging.
Colocasia	Land preparat	tion	- Prepare land for planting colocasia after rains.
4	for planting		
Animal Sciences		1. 4. 4. 6. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	
		ls to protect from strong wind estock/ poultry (surrounding	as and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	0	Management	0 0
	All age groups	<ul> <li>Ranikhet disease</li> </ul>	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock
(Chicken/			using Lasota strain vaccine through ocular route if the age of chick is less than
Duck)			21 days and through nasal route if it is older than 21 days.
		Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
			Enterotoxaemia, etc. do it in this month.
			• PPR immunization must be done once in every three years.
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.



Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of Anti-Psoroptic may be used.
		Management	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
			be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
<ul> <li>Fodder cultivation</li> </ul>	ation: Berseem/ oat cro	p may be sown immediately.	
Fishery			
			ed before for large scale fish culture.
			g fish fries/ fingerlings or yearlings.
			separate ponds. It must be provided with balanced feed and good quality water.
Type of	Stage	management	Agro-metrological advisories
	Singe	munugement	The second second and the second seco
Farming	0	_	
	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
Farming	0	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
Farming	0	_	<ul><li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li><li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body</li></ul>
Farming	0	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
Farming	0	Pond and water Feed	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> </ul>
Farming	nurseries	Pond and water Feed Fish	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
Farming	nurseries	Pond and water Feed Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> </ul>
Farming	nurseries	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> </ul>
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Farming Carp culture	nurseries Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> </ul>
Farming Carp culture Paddy cum	nurseries	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the</li> </ul>
Farming Carp culture	nurseries Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish</li> </ul>
Farming Carp culture Paddy cum fish culture	Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> </ul>
Farming         Carp culture         Paddy cum         fish culture         Cat fish	nurseries         Grow -out         Field         Pond and water	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> <li>Pond water may be replenished with fresh water maintaining a depth of 1m.</li> </ul>
Farming Carp culture Paddy cum fish culture	Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> </ul>



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





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

### **Tamenglong**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Tamenglong (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was	cloudy to overcast sky with maximum temp. 27-28 °C & minimum
recorded in the past three days.	& 35 % (min RH). The average wind speed may be 3 km/hr.

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silk	ing	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparatio and seed collecti		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundn Blackgram/ Redgra			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	ops		
Name of the cro	p Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting t vegetative	0	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		<ul> <li>Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.</li> </ul>
Colocasia	Land preparation for planting	on	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
		to protect from strong wind stock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.

• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.

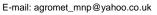




Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	<ul> <li>Vaccination</li> </ul>	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of Anti-Psoroptic may be used.
		<ul> <li>Management</li> </ul>	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			Adequate care must be ensured for protecting from untimely strong rain/wind
	ation: Berseem/ oat cro	p may be sown immediately.	
Fishery			
Fishery * New fish pond	s may be made or old	ones may be renovated/ clear	ned before for large scale fish culture.
<i>Fishery</i> * New fish pond * Care must be ta	ls may be made or old o aken for newly rain feo	ones may be renovated/ clear l ponds by liming for stockin	ned before for large scale fish culture. Ig fish fries/ fingerlings or yearlings.
Fishery * New fish pond * Care must be to * Intensive care	s may be made or old o aken for newly rain feo must be taken for fish	ones may be renovated/ clear l ponds by liming for stockin brooders by keeping them in	ned before for large scale fish culture. Ig fish fries/ fingerlings or yearlings. separate ponds. It must be provided with balanced feed and good quality water.
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

#### <u>Thoubal</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 28<sup>th</sup> April to 2<sup>nd</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24 <sup>th</sup> to 26 <sup>th</sup> April, 2018)	Weather forecast for next five days of Thoubal (28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2018)
Observed <b>no</b> rainfall with <b>mainly clear to partly cloudy but</b> <b>mainly cloudy</b> on 26 <sup>th</sup> April. Maximum temperature recorded	Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30 <sup>th</sup> April with mainly
ranged from 27.3 to 29.8 °C and minimum of 14.0 to 17.5 °C with mean relative humidity 81.3 % max and 29.3 % min was	cloudy to overcast sky with maximum temp. 30 °C & minimum
recorded in the past three days.	& 29 % (min RH). The average wind speed may be 0-2 km/hr.

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops Name of the cro	on Store	Pest and disease	A ano motoonological advisories
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
<b>Pre-kharif Rice</b>	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silkin	ng	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundn Blackgram/ Redgra			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	ps		
Name of the cro	p Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turme	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative	0	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting	on 🛛	- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
		to protect from strong wind tock/ poultry (surrounding	ls and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry / (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.

• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.

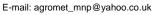




Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		<ul> <li>Management</li> </ul>	• Fly repellant must be used in the premises of the sheds.
Pig	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	<ul> <li>Vaccination</li> </ul>	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		<ul> <li>Management</li> </ul>	Breeding must be advocated continuously.
Cattle	All age groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			Adequate care must be ensured for protecting from untimely strong rain/wind
	ation: Berseem/ oat cro	p may be sown immediately.	
Fishery			
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





#### MANIPUR BULLETIN

# 27<sup>th</sup> April, 2018

### <u>Ukhrul</u>

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eavy rainfall at isolated places on 30 <sup>th</sup> April with mainly overcast sky with maximum temp. <b>27-28</b> °C & minimum <b>4</b> °C. Relative humidity may reach up to <b>81</b> % (max RH) min RH). The average wind speed may be <b>3-4 km/hr</b> .
) /

\* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Name of the cr	op Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice			- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	For Rabi Maiz Vegetative to flowering & si	-	<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparat and seed colled		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Ground Blackgram/ Redgr			<ul> <li>Collect good quality seeds from reliable source for sowing.</li> <li>Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.</li> </ul>
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Cro	ops		
Name of the cro	op Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turm	eric Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting vegetative	g to	For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Colocasia	Land prepara for planting	tion	- Prepare land for planting colocasia after rains.
<b>Animal Sciences</b>		L	
		ls to protect from strong wind vestock/ noultry (surrounding	ds and rains. area of 3ft width) using the repellent agent/ insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		Management	• Fly repellant must be used in the premises of the sheds.



6	All age groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of Anti-Psoroptic may be used.
		Management	Breeding must be advocated continuously.
Cattle All age groups excepts the young ones		Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
			• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		be advocated to safe the animals.	
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20- 30ml for 100 kg body weight.
		Care & Management	• Mixture of mineral/ salts should be added in the feed.
			• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind
<ul> <li>Fodder cultiva</li> </ul>	ation: Berseem/ oat cro	p may be sown immediately.	
Fishery			
			ed before for large scale fish culture.
			g fish fries/ fingerlings or yearlings.
			separate ponds. It must be provided with balanced feed and good quality water.
Type of	Stage	management	Agro-metrological advisories
	Singe	munugement	The second second and the second seco
Farming	0	_	
	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects
Farming	0	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
Farming	0	_	<ul><li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li><li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body</li></ul>
Farming	0	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
Farming	0	Pond and water Feed	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> </ul>
Farming	nurseries	Pond and water Feed Fish	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
Farming	nurseries	Pond and water Feed Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> </ul>
Farming	nurseries	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> </ul>
Farming	nurseries	Pond and water Feed Fish Pond and water	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3</li> </ul>
Farming Carp culture	nurseries Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> </ul>
Farming Carp culture Paddy cum	nurseries	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the</li> </ul>
Farming Carp culture	nurseries Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish</li> </ul>
Farming Carp culture Paddy cum fish culture	Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> </ul>
Farming         Carp culture         Paddy cum         fish culture         Cat fish	nurseries         Grow -out         Field         Pond and water	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> <li>Pond water may be replenished with fresh water maintaining a depth of 1m.</li> </ul>
Farming Carp culture Paddy cum fish culture	Grow -out	Pond and water Feed Fish Pond and water Fish	<ul> <li>Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day</li> <li>20-30 million spawn can be stock in 1 ha pond.</li> <li>Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.</li> <li>8000-10,000 fingerlings can be stocked per ha.</li> <li>Sampling of fish for growth, diseases (if any) should be done by regular netting.</li> <li>Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.</li> <li>Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.</li> </ul>