



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



**MANIPUR BULLETIN**

**29<sup>th</sup> May, 2018**

Bishnupur

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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>                  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Bishnupur (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>                  Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>29-31 °C</b> &amp; minimum temp. <b>22-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 76 % (min RH)</b>. The average wind speed may be <b>0-2 km/hr</b>.</p>
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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle initiation to flowering ( <b>Pre-kharif rice</b> )		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Brinjal</b>	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
<b>Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.



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**“Gramin Krishi Mausam Seva”**



<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits of chilli for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

**Animal Sciences**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
<b>Cattle</b>	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 • 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

**Fishery**

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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

**MANIPUR BULLETIN****29<sup>th</sup> May, 2018**Chandel

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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Chandel (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>  Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>27-29 °C</b> &amp; minimum temp. <b>20-21 °C</b>. Relative humidity may reach up to <b>98 % (max RH) &amp; 75 % (min RH)</b>. The average wind speed may be <b>2-3 km/hr</b>.</p>
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

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<b>Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.



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<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
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**29<sup>th</sup> May, 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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>                  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Imphal East (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>                   Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>28-30 °C</b> &amp; minimum temp. <b>22-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 67 % (min RH)</b>. The average wind speed may be <b>0-3 km/hr</b>.</p>
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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle initiation to flowering ( <b>Pre-kharif rice</b> )		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Brinjal</b>	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.



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



<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits of chilli for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

**Animal Sciences**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
<b>Cattle</b>	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 • 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

**Fishery**

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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





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



**MANIPUR BULLETIN**

**29<sup>th</sup> May, 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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>                  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Imphal West (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>                   Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>28-30 °C</b> &amp; minimum temp. <b>22-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 67 % (min RH)</b>. The average wind speed may be <b>0-3 km/hr</b>.</p>
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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle initiation to flowering ( <b>Pre-kharif rice</b> )		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Brinjal</b>	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
<b>Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.



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**“Gramin Krishi Mausam Seva”**



<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits of chilli for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

**Animal Sciences**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
<b>Cattle</b>	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 • 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

**Fishery**

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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

**MANIPUR BULLETIN****29<sup>th</sup> May, 2018**Senapati

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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Senapati (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>  Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>25-27 °C</b> &amp; minimum temp. <b>19-20 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 64 % (min RH)</b>. The average wind speed may be <b>0-2 km/hr</b>.</p>
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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle initiation to flowering ( <b>Pre-kharif rice</b> )		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Brinjal</b>	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
<b>Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.



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



<i>Animal Sciences</i>			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
<b>Cattle</b>	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 • 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<i>Fishery</i>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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

**MANIPUR BULLETIN****29<sup>th</sup> May, 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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Tamenglong (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>  Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>26-28 °C</b> &amp; minimum temp. <b>20-21 °C</b>. Relative humidity may reach up to <b>99 % (max RH) &amp; 75 % (min RH)</b>. The average wind speed may be <b>2-3 km/hr</b>.</p>
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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle initiation to flowering ( <b>Pre-kharif rice</b> )		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Brinjal</b>	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
<b>Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.





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**“Gramin Krishi Mausam Seva”**



<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits of chilli for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

**Animal Sciences**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
<b>Cattle</b>	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 • 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

**Fishery**

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****29<sup>th</sup> May, 2018**Thoubal

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 30<sup>th</sup> May to 3<sup>rd</sup> June, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (25<sup>th</sup> to 28<sup>th</sup> May, 2018)</b>  Observed <b>9.1 mm</b> rainfall with <b>partly cloudy to overcast sky</b> during past four days but <b>mainly clear</b> sky during afternoon hours of 26<sup>th</sup> and morning hours of 28<sup>th</sup> May. Maximum temperature recorded ranged from <b>28.5 to 31.6 °C</b> and minimum of <b>20.0 to 21.3 °C</b> with mean relative humidity <b>86.75 %</b> max and <b>64.33 %</b> min was recorded in the past four days with average wind speed was 3.1- 4.4 km/ hr.</p>	<p><b>Weather forecast for next five days of Thoubal (30<sup>th</sup> May to 3<sup>rd</sup> June, 2018)</b>  Very likely to have heavy rains at isolated places during next five days and mainly cloudy to overcast sky with maximum temp. <b>29-31 °C</b> &amp; minimum temp. <b>22-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 79 % (min RH)</b>. The average wind speed may be <b>0-2 km/hr</b>.</p>
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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle initiation to flowering ( <b>Pre-kharif rice</b> )		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery and land preparation of main field ( <b>Kharif rice</b> )		- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts. - First plough of the rice field may be done. Submerge the soil for 15-20 days.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed/ sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativio@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Land preparation to Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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 properly. Spray Malathion 1% on the walls of stores.

<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Brinjal</b>	Flowering to harvesting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer. - Spray Cypermethrin @ 2ml/ lit of water.
<b>Cucurbits (Watermelon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Ginger/ Turmeric</b>	Vegetative		Crops that were planted in the month of March may be top dressed with 25kg DAP + 10 Kg MOP per sangam in upland areas.
<b>Colocassia</b>	Vegetative		- 45-50 days old plants may be top dressed with 25 kg DAP/ sangam. - Prophylactic measures against leaf blight should be taken up. Spray Redomil@ 1.5g/litre of water or Mancozeb @ 2gm/lit of water twice or thrice at 10 days interval after this wet spell.



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<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits of chilli for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.

**Animal Sciences**

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
<b>Poultry (Chicken/ Duck)</b>	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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. Protect from after winds (loo).
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
<b>Cattle</b>	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 • 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/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

**Fishery**

Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given @5-10% body weight/day.

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**MANIPUR BULLETIN****29<sup>th</sup> May, 2018**Ukhrul

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The Northern Limit of Monsoon (NLM) passes through Lat.20°N/ Long. 93°E and conditions are becoming favourable for further advancement of Southwest Monsoon into some more parts of northeastern states during next 2 - 3 days

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