

Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with mainly cloudy to overcast sky from 2<sup>nd</sup> to 4<sup>th</sup> June morning but mainly clear to partly cloudy on 1<sup>st</sup> June and afternoon hours of 4<sup>th</sup> June. Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Bishnupur (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 31-32 °C & minimum temp. 21 °C. Relative humidity may reach up to 100 % (max RH) & 91 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering ( <b>Pre-</b> <b>kharif rice</b> )	Sheath blight/ sheath rot	- Maintain water level at 5-8 cm Monitor rice fields regularly for insect pest infestation.  - Apply Propiconazole @ 15ml/ 15 litres water.
Rice	Nursery and land preparation of main field ( <b>Kharif rice</b> )		<ul> <li>Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13.</li> <li>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 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.</li> <li>Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.</li> </ul>
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	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.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul> <li>- Prune dropping shoots and burn it. Destroy the fruit along with borer.</li> <li>- Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li> </ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/







					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.
fruiting to		Flowering and fruiting to harvesting			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.  - Weeding may be done to avoid insect pest infestation.
Animal Science	es	<u> </u>	•		1
Name of bird/ animal		Stage	Disease a Managen		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All aş	ge groups	Ranikhet disea		• 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 Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
			Management		• Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.
			<ul> <li>Coccidiosis</li> </ul>		• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All ag	ge 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		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>
Pig	All ag	ge groups	De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
J		ot the young	• Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
	ones		Management		<ul> <li>Breeding must be advocated continuously.</li> <li>Protect from thunder showers especially during night.</li> </ul>
Cattle		All age groups excepts the young ones  • Vaccination			<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
			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 cultiva  Fishery	tion: B	erseem/ oat crop	may be sown im	mediately.	
Type of Farming		Stage	Management	Agro-m	netrological advisories
Carp culture	Bree	eding	pond		rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 7 ml/kg of fish.
	Hato	cheries	water	hatcheri	g can be done in traditional hapas having outer & inner hapas or circular les. A mild current with fine shower is needed for circular hatcheries. Feed should given for 3 days.
	Nur	series	ponds - Stock		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.
	Carp	o diseases	Argulus (fish lice) infection	- Remov KMnO <sub>4</sub> - Treat o	we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight.
			EUS (Epizostic Ulcerative Syndrome)		1 litre of CIFAX after dilution in one hectare Pond with EUS infected fishes.



Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

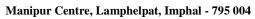
Observed **89.4 mm** rainfall with **mainly cloudy to overcast sky from** 2<sup>nd</sup> **to** 4<sup>th</sup> **June morning but mainly clear to partly cloudy on** 1<sup>st</sup> **June and afternoon hours of** 4<sup>th</sup> **June.** Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Chandel (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 29-30  $^{\circ}$ C & minimum temp. 19-20  $^{\circ}$ C. Relative humidity may reach up to 100  $^{\circ}$ C (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering ( <b>Pre-</b> <b>kharif rice</b> )	Sheath blight/ sheath rot	- Maintain water level at 5-8 cm Monitor rice fields regularly for insect pest infestation.  - Apply Propiconazole @ 15ml/ 15 litres water.
Rice	Nursery and land preparation of main field ( <b>Kharif rice</b> )		<ul> <li>Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13.</li> <li>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 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.</li> <li>Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.</li> </ul>
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	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.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul><li>- Prune dropping shoots and burn it. Destroy the fruit along with borer.</li><li>- Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li></ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/







# "Gramin Krishi Mausam Seva"

					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.	
Chilli/ capsicum Flowering at fruiting to harvesting		uiting to	d		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.  - Weeding may be done to avoid insect pest infestation.	
Animal Science		1				
Name of bird/ animal	St	age	Disease a Managem		Agro-meteorological advisories	
Poultry All age (Chicken/Duck)		roups	Ranikhet disea		• 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 Levamizole Hydrochloride. Potash granules may be added in the dripling water of poultry.	
			Management		the drinking water of poultry.  • Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.	
			Coccidiosis		Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.	
Sheep/ Goat	All age g	roups	• Vaccination		If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.	
			Management		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>	
Pig	All age g		• De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.	
	except th	e young	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.	
	ones		Management		Breeding must be advocated continuously.	
					Protect from thunder showers especially during night.	
Cattle		All age groups excepts the young ones			<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
			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 cultiva	ation: Berse	em/ oat crop	may be sown imm	nediately.		
Fishery						
Type of Farming	Si	tage	Management	J	netrological advisories	
Carp culture	Breedin	g	pond	0.5 - 0.7	rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 7 ml/kg of fish.	
	Hatcher	ies	water	hatcheri	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 shou not be given for 3 days.	
	Nurserie	es	ponds	- Stock	20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.	
	Carp dis	seases	Argulus (fish lice) infection	- Remov KMnO <sub>4</sub> - Treat o	we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. One hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight.	
			EUS (Epizostic Ulcerative Syndrome)	- Spray	CIFAX @ 1 litre/ 100 litre of water in one hectare pond with EUS infected fishes. the solution in non-metallic container.	



Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with mainly cloudy to overcast sky from 2<sup>nd</sup> to 4<sup>th</sup> June morning but mainly clear to partly cloudy on 1<sup>st</sup> June and afternoon hours of 4<sup>th</sup> June. Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Churachandpur (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 30-31 °C & minimum temp. 21 °C. Relative humidity may reach up to 100 % (max RH) & 77 % (min RH). The average wind speed may be 0-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering ( <b>Pre-</b>		<ul><li>Maintain water level at 5-8 cm.</li><li>Monitor rice fields regularly for insect pest infestation.</li></ul>
	kharif rice)	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water.
Rice	Nursery and land preparation of main field ( <b>Kharif rice</b> )		<ul> <li>Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13.</li> <li>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 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.</li> <li>Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.</li> </ul>
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	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.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul><li>- Prune dropping shoots and burn it. Destroy the fruit along with borer.</li><li>- Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li></ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/







				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.	
Chilli/ capsicum Flowering an fruiting to harvesting		d		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains Weeding may be done to avoid insect pest infestation.	
Animal Science				- weeding may be done to avoid insect pest intestation.	
Name of bird/ animal	Stage	Disease at Managem		Agro-meteorological advisories	
Poultry (Chicken/ Duck)	All age groups	Ranikhet disea		• 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 Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.	
		Management		Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.	
		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.	
		Management		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>	
Pig	All age groups	De-worming		Protect from unuder showers. Protect from after winds (100).      De-worm with Albendazole @7.5 mg/kg b.wt.	
119	except the young	Skin disease		Sprayer of <i>Anti-Psoroptic</i> may be used.	
	ones				
		Management		<ul> <li>Breeding must be advocated continuously.</li> <li>Protect from thunder showers especially during night.</li> </ul>	
Cattle	All age groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	excepts the young ones	Deworming		<ul> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body</li> </ul>	
				salts (mineral forte powder) 25g/day.	
				• 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 cultivat	tion: Berseem/ oat cro	p may be sown imn	nediately.		
Fishery					
Type of Farming	Stage	Management		netrological advisories	
Carp culture	Breeding	pond	0.5 - 0.7	rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 7 ml/kg of fish.	
	Hatcheries	water Hatchir hatcher		g can be done in traditional hapas having outer & inner hapas or circular ies. A mild current with fine shower is needed for circular hatcheries. Feed should given for 3 days.	
	Nurseries	ponds	- Stock	20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. g should be given@5-10% body weight/day.	
	Carp diseases	Argulus (fish lice) infection	- Remo KMnO <sub>4</sub> - Treat	ve all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste	
		EUS (Epizostic Ulcerative Syndrome)	soaked overnight Spray CIFAX @ 1 litre/ 100 litre of water in one hectare pond with EUS infected fished Prepare the solution in non-metallic container.		



Manipur Centre, Lamphelpat, Imphal - 795 004

## "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with mainly cloudy to overcast sky from 2<sup>nd</sup> to 4<sup>th</sup> June morning but mainly clear to partly cloudy on 1<sup>st</sup> June and afternoon hours of 4<sup>th</sup> June. Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Imphal East (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 30-31 °C & minimum temp. 21 °C. Relative humidity may reach up to 100 % (max RH) & 70 % (min RH). The average wind speed may be 0-3 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering ( <b>Pre-</b> <b>kharif rice</b> )	Sheath blight/ sheath rot	- Maintain water level at 5-8 cm Monitor rice fields regularly for insect pest infestation.  - Apply Propiconazole @ 15ml/ 15 litres water.
Rice	Nursery and land preparation of main field ( <b>Kharif rice</b> )		<ul> <li>Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou-10 and RC Maniphou-13.</li> <li>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 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.</li> <li>Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.</li> </ul>
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	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.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul><li>- Prune dropping shoots and burn it. Destroy the fruit along with borer.</li><li>- Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li></ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/







					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.
fruiting to		Flowering and fruiting to harvesting			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.  - Weeding may be done to avoid insect pest infestation.
Animal Science	es	<u> </u>	•		1
Name of bird/ animal		Stage	Disease a Managen		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All aş	ge groups	Ranikhet disea		• 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 Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
			Management		• Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.
			<ul> <li>Coccidiosis</li> </ul>		• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All ag	ge 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		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>
Pig	All ag	ge groups	De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
J		ot the young	• Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
	ones		Management		<ul> <li>Breeding must be advocated continuously.</li> <li>Protect from thunder showers especially during night.</li> </ul>
Cattle		All age groups excepts the young ones  • Vaccination			<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
			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 cultiva  Fishery	tion: B	erseem/ oat crop	may be sown im	mediately.	
Type of Farming		Stage	Management	Agro-m	netrological advisories
Carp culture	Bree	eding	pond		rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 7 ml/kg of fish.
	Hato	cheries	water	hatcheri	g can be done in traditional hapas having outer & inner hapas or circular les. A mild current with fine shower is needed for circular hatcheries. Feed should given for 3 days.
	Nur	series	ponds - Stock		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.
	Carp	o diseases	Argulus (fish lice) infection	- Remov KMnO <sub>4</sub> - Treat o	we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight.
			EUS (Epizostic Ulcerative Syndrome)		1 litre of CIFAX after dilution in one hectare Pond with EUS infected fishes.



Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

# 5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with mainly cloudy to overcast sky from 2<sup>nd</sup> to 4<sup>th</sup> June morning but mainly clear to partly cloudy on 1<sup>st</sup> June and afternoon hours of 4<sup>th</sup> June. Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Imphal West (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 30-31 °C & minimum temp. 21 °C. Relative humidity may reach up to 100 % (max RH) & 70 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
•	Panicle initiation		<ul><li>Maintain water level at 5-8 cm.</li><li>Monitor rice fields regularly for insect pest infestation.</li></ul>
	to flowering ( <b>Pre-kharif rice</b> )	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water.
Rice	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 o nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOI per 700 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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 of 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	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 Imidaclopric @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kep weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul> <li>Prune dropping shoots and burn it. Destroy the fruit along with borer.</li> <li>Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li> </ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area o in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP







					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.
fruiting to		Flowering and fruiting to harvesting			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.  - Weeding may be done to avoid insect pest infestation.
Animal Science	es	<u> </u>	•		1
Name of bird/ animal		Stage	Disease a Managen		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All aş	ge groups	Ranikhet disea		• 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 Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
			Management		• Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.
			<ul> <li>Coccidiosis</li> </ul>		• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All ag	ge 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		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>
Pig	All ag	ge groups	De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
J		ot the young	• Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
	ones		Management		<ul> <li>Breeding must be advocated continuously.</li> <li>Protect from thunder showers especially during night.</li> </ul>
Cattle		All age groups excepts the young ones  • Vaccination			<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
			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 cultiva  Fishery	tion: B	erseem/ oat crop	may be sown im	mediately.	
Type of Farming		Stage	Management	Agro-m	netrological advisories
Carp culture	Bree	eding	pond		rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 7 ml/kg of fish.
	Hato	cheries	water	hatcheri	g can be done in traditional hapas having outer & inner hapas or circular les. A mild current with fine shower is needed for circular hatcheries. Feed should given for 3 days.
	Nur	series	ponds - Stock		20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.
	Carp	o diseases	Argulus (fish lice) infection	- Remov KMnO <sub>4</sub> - Treat o	we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight.
			EUS (Epizostic Ulcerative Syndrome)		1 litre of CIFAX after dilution in one hectare Pond with EUS infected fishes.



Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with mainly cloudy to overcast sky from 2<sup>nd</sup> to 4<sup>th</sup> June morning but mainly clear to partly cloudy on 1<sup>st</sup> June and afternoon hours of 4<sup>th</sup> June. Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1-4.2 km/hr.

Weather forecast for next five days of Senapati (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 26-27  $^{\circ}$ C & minimum temp. 18-19  $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & 70 % (min RH). The average wind speed may be 0-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering ( <b>Pre-</b>		<ul><li>Maintain water level at 5-8 cm.</li><li>Monitor rice fields regularly for insect pest infestation.</li></ul>
	kharif rice)	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water.
Rice	Nursery and land preparation of main field ( <b>Kharif rice</b> )		<ul> <li>Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and RC Maniphou- 13.</li> <li>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 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.</li> <li>Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.</li> </ul>
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	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.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops	_		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul><li>- Prune dropping shoots and burn it. Destroy the fruit along with borer.</li><li>- Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li></ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/ 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.
Chilli/ capsicum Flowering an fruiting to harvesting		1			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains Weeding may be done to avoid insect pest infestation.	
Animal Science	es					
Name of bird/ animal		Stage		Disease an Manageme		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All ag	ge groups		ikhet diseas		• 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.
,			• End	oparasites		De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
			• Mar	nagement		Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.
			• Coc	cidiosis		Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All ag	ge groups	• Vac	cination		• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			• Mar	nagement		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>
Pig		ge groups	De-worming			De-worm with Albendazole @7.5 mg/kg b.wt.
	_	t the young	Skin disease			• Sprayer of <i>Anti-Psoroptic</i> may be used.
	ones		Management			Breeding must be advocated continuously.
						Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones		Vaccination			<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
			• Dev	Deworming     Care & Management		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			• Care			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
<ul> <li>Fodder cultiva</li> </ul>	tion: B	erseem/ oat croj	may be	sown imm	ediately.	
Fishery						
Type of Farming		Stage	Man	agement	_	netrological advisories
Carp culture	Bree		pond		0.5 - 0.7	rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ ml/kg of fish.
	Hatc	heries	water		hatcheri	g can be done in traditional hapas having outer & inner hapas or circular es. A mild current with fine shower is needed for circular hatcheries. Feed should iven for 3 days.
	Nurs	series	ponds			20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. should be given@5-10% body weight/day.
	Carp diseases		_	us (fish nfection	<ul> <li>Remove all the fishes and give a bath treatment for 15 min per day in a solution of KMnO<sub>4</sub> (Potassium permanganate) in 10 litres of water for 5-7 days.</li> <li>Treat one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste soaked overnight.</li> </ul>	
			EUS (I Ulcerati Syndroi			CIFAX @ 1 litre/ 100 litre of water in one hectare pond with EUS infected fishes. the solution in non-metallic container.



Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

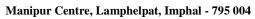
Observed **89.4 mm** rainfall with **mainly cloudy to overcast sky from** 2<sup>nd</sup> **to** 4<sup>th</sup> **June morning but mainly clear to partly cloudy on** 1<sup>st</sup> **June and afternoon hours of** 4<sup>th</sup> **June.** Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Tamenglong (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 19-20 °C. Relative humidity may reach up to 99 % (max RH) & 64 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle initiation to flowering ( <b>Pre-</b> <b>kharif rice</b> )	Sheath blight/ sheath rot	- Maintain water level at 5-8 cm Monitor rice fields regularly for insect pest infestation Apply Propiconazole @ 15ml/ 15 litres water.
Rice	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 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	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.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	- Prune dropping shoots and burn it. Destroy the fruit along with borer Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area or in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/







# "Gramin Krishi Mausam Seva"

					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.
Chilli/ capsicu	frı ha	Flowering and fruiting to harvesting			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.  - Weeding may be done to avoid insect pest infestation.
Animal Science					
Name of bird/ animal	St	age	Disease a Managem		Agro-meteorological advisories
Poultry (Chicken/ Duck) All age g		roups	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 Levamizole Hydrochloride. Potash granules may be added in the dripling water of poultry.
			Management		the drinking water of poultry.  • Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.
			Coccidiosis		Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age g	roups	Vaccination		If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
			Management		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>
Pig	All age g		• De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except th	e young	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.
	ones		Management		Breeding must be advocated continuously.
					Protect from thunder showers especially during night.
Cattle All age grexcepts the ones			Vaccination      Deworming     Care & Management		<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
					• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
Fodder cultiva	ation: Berse	em/ oat crop	may be sown imm	nediately.	
Fishery					
Type of Farming	Si	tage	Management	J	netrological advisories
Carp culture	8				
	Hatcher	ies	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 shown to be given for 3 days.	
	Nurserie	es	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 preeding should be given@5-10% body weight/day.	
	Carp diseases		Argulus (fish lice) infection	<ul> <li>Remove all the fishes and give a bath treatment for 15 min per day in a solution of 1g KMnO<sub>4</sub> (Potassium permanganate) in 10 litres of water for 5-7 days.</li> <li>Treat one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste soaked overnight.</li> </ul>	
			EUS (Epizostic Ulcerative Syndrome)	- Spray CIFAX @ 1 litre/ 100 litre of water in one hectare pond with EUS infected fishes. Prepare the solution in non-metallic container.	



Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with **mainly cloudy to overcast sky from** 2<sup>nd</sup> **to** 4<sup>th</sup> **June morning but mainly clear to partly cloudy on** 1<sup>st</sup> **June and afternoon hours of** 4<sup>th</sup> **June.**Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

Weather forecast for next five days of Thoubal (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 31-32 °C & minimum temp. 21-22 °C. Relative humidity may reach up to 100 % (max RH) & 70 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Name of the crop	Stage	1 est and disease	- Maintain water level at 5-8 cm.
	Panicle initiation		- Monitor rice fields regularly for insect pest infestation.
	to flowering (Pre-	Sheath blight/	- Apply Propiconazole @ 15ml/ 15 litres water.
	kharif rice)	sheath rot	- 71ppry 11opiconazoic @ 15mi/ 15 mics water.
			- Raise kharif rice nursery. Varieties: RC Maniphou-7, RC Maniphou- 10 and
			RC Maniphou- 13.
Rice	Nursery and land		- Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of
	preparation of		nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP
	main field		per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g
	(Kharif rice)		Carbendazim. Maintain water level just to submerge green sprouts.
	(IIIIIII IIII)		- Land preparation of main field may be started for transplanting rice seedling
			and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg
	~ .		MOP per hectare at the time of final leveling before transplanting.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
Soybean	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.
Groundnut	Sowing		- Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-
Grounding	Bowing		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.
Blackgram/ Rice	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kept
Bean			weed free to avoid insect/ pest.
			For seed purpose store the seeds in RC-Seed Bin 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 properly. Spray
H. at a kan Cara			Malathion 1% on the walls of stores.
Horticulture Crops	Ctore	Pest and disease	A one meteorological adminantas
Name of the crop	Stage Flowering and	Shoot & fruit borer	Agro-meteorological advisories  - Prune dropping shoots and burn it. Destroy the fruit along with borer.
Brinjal	fruiting	Shoot & Hult boler	- Fruite dropping shoots and burn it. Destroy the fruit along with botel Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.
Cucurbits	Flowering,	Powdery Mildew/	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water.
Cucuibits	Fruiting and	Downy Mildew	- Avoid deposition of water on the leaves.
	Harvesting	20 mily initiae m	Thou deposition of water on the features.
Cauliflower	Nursery		- Preparation of nursery may be started for early cauliflower in the upland area or
			in rain protective structures are available with the farmers.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks
			of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old
			plants (for normal sowing) and for late sown crops it may be done just after
			sprouting and second weeding after 1 or 1 ½ month.
			- 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP/







					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.	
fruiti		Flowering and fruiting to harvesting			- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains.  - Weeding may be done to avoid insect pest infestation.	
Animal Science	es	<u> </u>	•		1	
Name of bird/ animal		Stage	Disease and Management		Agro-meteorological advisories	
Poultry (Chicken/Duck) All age groups		ge 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     Management     Coccidiosis		De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.	
					• Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.	
					• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.	
Sheep/ Goat	All ag	ge 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		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>	
Pig	All a	ge groups	De-worming		De-worm with Albendazole @7.5 mg/kg b.wt.	
8		ot the young	• Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.	
	ones		Management		Breeding must be advocated continuously.      Protect from thunder showers especially during night.	
		ge groups ots the young	Vaccination		<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>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.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>	
			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 cultiva  Fishery	tion: B	erseem/ oat crop	may be sown im	mediately.		
Type of Farming		Stage	Management	Agro-m	netrological advisories	
Carp culture	Bree	eding	pond		rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ 7 ml/kg of fish.	
	Hato	cheries	water	hatcheri	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 sh not be given for 3 days.	
	Nur	series	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 Feeding should be given@5-10% body weight/day.		
	Carp diseases		Argulus (fish lice) infection	- Remov KMnO <sub>4</sub> - Treat o	we all the fishes and give a bath treatment for 15 min per day in a solution of 1g (Potassium permanganate) in 10 litres of water for 5-7 days. one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste overnight.	
			EUS (Epizostic Ulcerative Syndrome)	- Spray 1 litre of CIFAX after dilution in one hectare Pond with EUS infected fishes.		



Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

5<sup>th</sup> June, 2018

## **Ukhrul**

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 6<sup>th</sup> to 10<sup>th</sup> June, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (1<sup>st</sup> to 4<sup>th</sup> June, 2018)

Observed **89.4 mm** rainfall with mainly cloudy to overcast sky from 2<sup>nd</sup> to 4<sup>th</sup> June morning but mainly clear to partly cloudy on 1<sup>st</sup> June and afternoon hours of 4<sup>th</sup> June. Maximum temperature recorded ranged from **29.9** to **31.7** °C and minimum of **21.0** to **21.8** °C with mean relative humidity **88.8** % max and **61.5** % min was recorded in the past four days with average wind speed was 3.1- 4.2 km/ hr.

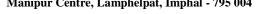
Weather forecast for next five days of Ukhrul (6<sup>th</sup> to 10<sup>th</sup> June, 2018)

Likely to have widespread light to moderate rains during next five days and partly cloudy to overcast sky with maximum temp. 27-28 °C & minimum temp. 19-20 °C. Relative humidity may reach up to 99 % (max RH) & 87 % (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
•	Panicle initiation		<ul><li>Maintain water level at 5-8 cm.</li><li>Monitor rice fields regularly for insect pest infestation.</li></ul>
	to flowering ( <b>Pre-kharif rice</b> )	Sheath blight/ sheath rot	- Apply Propiconazole @ 15ml/ 15 litres water.
Rice	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 MOF per 700 m² along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts Land preparation of main field may be started for transplanting rice seedling and submerge it for 15- 20 days. Apply 65 kg Urea, 250 kg SSP and 45 kg MOP per hectare at the time of final leveling before transplanting.
Kharif Maize	Sowing		- Sowing may be done.
Soybean	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 × 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
Groundnut	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 Imidaclopric @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice Bean	Sowing		- Sowing may be done after rains by broadcasting or dibbling. Plot must be kep weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Brinjal	Flowering and fruiting	Shoot & fruit borer	<ul><li>- Prune dropping shoots and burn it. Destroy the fruit along with borer.</li><li>- Spray Cypermethrin @ 2ml/ lit of water or Imidachloprid @ 1ml/ litre of water.</li></ul>
Cucurbits	Flowering, Fruiting and Harvesting	Powdery Mildew/ Downy Mildew	- Apply Sulfex (Sulphur fungicide) or Propiconazole25% E.C. @2g/l of water Avoid deposition of water on the leaves.
Ginger/ Turmeric	Vegetative	Leaf Spot	To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
Colocassia	Vegetative		At present, earthing up may be done after the wet spell at 1 or 1 ½ month old plants (for normal sowing) and for late sown crops it may be done just after sprouting and second weeding after 1 or 1 ½ month.  - 45-50 days old plants may be top dressed with 4.5kg Urea + 156kg SSP 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 a



#### Manipur Centre, Lamphelpat, Imphal - 795 004





## "Gramin Krishi Mausam Seva"

					10 days interval after this wet spell.
Chilli/ capsicum Flowering an fruiting to harvesting		d		- In chilies and capsicum, spray Sixer (Carbendazim 12% WP + Mancozeb 63% WP) @ 2 g/ litre of water to control the fungal attack after rains Weeding may be done to avoid insect pest infestation.	
Animal Scienc	es				
Name of bird/ animal		Stage	Disease ar Managem		Agro-meteorological advisories
Poultry (Chicken/ Duck)	All ag	e 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 tha 21 days and through nasal route if it is older than 21 days.
			Endoparasites		• De-worm using Levamizole Hydrochloride. Potash granules may be added in the drinking water of poultry.
			Management		Do not allow to consume muddy water to protect from E.coli infection. Use water senitizer.
			• 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.
			Management		<ul> <li>Fly repellant must be used in the premises of the sheds.</li> <li>Protect from thunder showers. Protect from after winds (loo).</li> </ul>
Pig	All age groups		De-worming		• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Skin disease		• Sprayer of <i>Anti-Psoroptic</i> may be used.	
	ones		Management		Breeding must be advocated continuously.     Protect from thunder showers especially during night.
Cattle	All age groups excepts the young ones		Vaccination		<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S. if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period. Immediate treatment using appropriate drugs with the help of Consultant must be advocated to saf the animals.</li> <li>Protect animals from PICA (depraved appetite) by providing essential body salts (mineral forte powder) 25g/day.</li> </ul>
			Deworming     Care & Management		De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
					Mixture of mineral/salts should be added in the feed/water to avoid loss of essential body salts. Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
	tion: Be	erseem/ oat crop	may be sown imn	nediately.	
Fishery					
Type of Farming		Stage	Management	Agro-metrological advisories	
Carp culture	Breed		pond	0.5 - 0.7	rmones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ $7  ml/kg$ of fish.
	Hatcl	heries	water	hatcheri	g can be done in traditional hapas having outer & inner hapas or circular les. A mild current with fine shower is needed for circular hatcheries. Feed should given for 3 days.
	Nurs	eries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0	

Feeding should be given@5-10% body weight/day.

Prepare the solution in non-metallic container.

soaked overnight.

- Remove all the fishes and give a bath treatment for 15 min per day in a solution of 1g

- Spray CIFAX @ 1 litre/ 100 litre of water in one hectare pond with EUS infected fishes.

- Treat one hactare pond with a mixture of 100kg Common Salt + 10 kg Garlic paste

KMnO<sub>4</sub> (Potassium permanganate) in 10 litres of water for 5-7 days.

Argulus (fish

lice) infection

EUS (Epizostic Ulcerative

Syndrome)

Carp diseases