

Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### MANIPUR BULLETIN

past three days.

11<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  $1\overline{2}^{th}$  to  $16^{th}$  May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018) (12<sup>th</sup> to 16<sup>th</sup> May, 2018) Observed 30.5 mm rainfall with overcast sky during past three days. Maximum temperature recorded ranged from 22.8 to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative humidity 92.0 % max and 74.3 % min was recorded in the

Weather forecast for next five days of Bishnupur

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. 25-26 °C & minimum temp. 15-16 °C. Relative humidity may reach up to 100 % (max RH) & 55 % (min RH). The average wind speed may be **0-2 km/hr**.

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

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
-	Panicle Initiation (Pre-kharif rice)	Test and disease	- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop fieldTop dressing may be done after the rains.
Rice	Seed collection (Kharif rice)		<ul> <li>Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.</li> <li>Land preparation for raising kharif rice nursery may be started.</li> </ul>
Maize	For Rabi Maize Cob formation to Maturity		<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>
	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started after rains.  Procure disease free quality seeds from reliable source. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest 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		- Plot must be kept weed free to avoid insect/ pest 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 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 proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	G.		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Cucurbits	Vegetative to flowering and fruiting		<ul> <li>Weeding may be done after rains.</li> <li>Provide proper staking to support plants and avoid fruits to touch soil.</li> <li>Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.</li> </ul>
Colocasia	Planting		- Select healthy mother rhizome. Treat planting material before sowing.







* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck) All		Disease and Management  Ranikhet disease	<ul> <li>Agro-meteorological advisories</li> <li>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.</li> </ul>
* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck)  All	Stage All age groups	Disease and Management  Ranikhet disease	<ul> <li>area of 3ft width) using the repellent agent/ insecticides spray after rains.</li> <li>Agro-meteorological advisories</li> <li>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</li> </ul>
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animal Poultry (Chicken/ Duck) Al	all age groups	Management  • 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
(Chicken/ Duck)			using Lasota strain vaccine through ocular route if the age of chick is less than
Sheep/ Goat A	Il age groups	. C '1' '	21 days and anough hasai foute if it is older than 21 days.
Sheep/ Goat A	ll age groups	<ul> <li>Coccidiosis</li> </ul>	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
		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.</li> <li>Protect from after winds (loo).</li> </ul>
	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	xcept the young nes	Vaccination	Vaccinate against FMD and Swine Fever.
Oil	nes	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.     Protect from thunder showers especially during night.
	all age groups xcepts the young nes	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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</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
			Adequate care must be ensured for protecting from untimely strong rain/wince
<ul> <li>Fodder cultivation</li> </ul>	n: Berseem/ oat crop	may be sown immediately.	
Fishery	<del></del>		

- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.

  \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field	·	Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 1811 )	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





Manipur Centre, Lamphelpat, Imphal - 795 004

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#### **MANIPUR BULLETIN**

## 11<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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Chandel
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> May, 2018)	(12 <sup>th</sup> to 16 <sup>th</sup> May, 2018)
	Likely to have thunderstorm with gusty winds at isolated places
three days. Maximum temperature recorded ranged from 22.8	upto 14 <sup>th</sup> May and widespread rains with mainly cloudy to overcast
to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative	sky with maximum temp. 23-24 °C & minimum temp. 13-14 °C.
humidity 92.0 % max and 74.3 % min was recorded in the	Relative humidity may reach up to 85 % (max RH) & 34 % (min
past three days.	RH). The average wind speed may be 2-5 km/hr.

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle Initiation		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water
	(Pre-kharif rice)		if accumulated due to rain in crop field.
Rice			-Top dressing may be done after the rains.  - Collect well filled disease free quality seeds from reliable source for sowing
	Seed collection		nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.
	(Kharif rice)		- Land preparation for raising kharif rice nursery may be started.
			- Drainage may be constructed well to avoid water logging in and around the
	For Rabi Maize		crop field.
	Cob formation to Maturity		- Construct wind breaks to avoid uprooting of standing crops by the high speed
Maize	- Iviaturity		winds.
	Kharif maize		Land preparation for maize cultivation can be started after rains.
	Land preparation		Procure disease free quality seeds from reliable source. Treat seeds with
G 1	and seed collection		Carbendazim @ 2g/kg seeds before sowing after rains.
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest 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		- Plot must be kept weed free to avoid insect/ pest.
			- 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	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed
Bean			free to avoid insect/ pest.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
G 1 4	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		moisture content or weight of charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			National 170 on the wants of stores.
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Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or
			grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and
			Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Cucurbits	Vegetative to		- Weeding may be done after rains.
	flowering and		- Provide proper staking to support plants and avoid fruits to touch soil.
	fruiting		- Rotting of young fruits/ premature ripening of fruits if observed then Methyl
			Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides
Colocasia	Planting		like Cypermethrin may be sprayed. Neem oil may also be used Select healthy mother rhizome. Treat planting material before sowing.
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		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.</li> <li>Protect from after winds (loo).</li> </ul>
	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
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		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
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Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
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		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field	·	Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
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Observed 30.5 mm rainfall with overcast sky during past three days. Maximum temperature recorded ranged from 22.8 to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative humidity 92.0 % max and 74.3 % min was recorded in the past three days.

Weather forecast for next five days of Churachandpur (12<sup>th</sup> to 16<sup>th</sup> May, 2018)

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. 24-25 °C & minimum temp. 14-15 °C. Relative humidity may reach up to 100 % (max RH) & 58 % (min RH). The average wind speed may be 2-4 km/hr.

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	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
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Paddy cum	Field	·	Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 1811 )	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

11<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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)

Observed 30.5 mm rainfall with overcast sky during past three days. Maximum temperature recorded ranged from 22.8 to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative humidity 92.0 % max and 74.3 % min was recorded in the past three days.

Weather forecast for next five days of Imphal East (12<sup>th</sup> to 16<sup>th</sup> May, 2018)

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. 24-25 °C & minimum temp. 15 °C. Relative humidity may reach up to 100 % (max RH) & 41 % (min RH). The average wind speed may be 2-3 km/hr.

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Name of the crop   Stage   Pest and disease   Agro-meteorological advisories	Field Crops			
Pancie initiation (Pre-kharifrice)   For accumulated due to rain in crop field.   For dressing may be done after the rains.	Name of the crop	Stage	Pest and disease	
Seed collection (Kharif rice)	D'.			if accumulated due to rain in crop field.
Maize  Maize  Kharif maize Land preparation to Maturity  Kharif maize Land preparation and seed collection  Soybean  Sowing  Sowing  Sowing  Pot must be kept weed free to avoid insect/ pest. Sowing  Plot must be kept weed free to avoid insect/ pest. Sowing  Plot must be kept weed free to avoid insect/ pest. Sowing  Plot must be kept weed free to avoid insect/ pest. Sowing  Plot must be kept weed free to avoid insect/ pest. Sowing  Plot must be kept weed free to avoid insect/ pest. 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  Plot must be kept weed free to avoid insect/ pest. Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & J.L. 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  Post harvest management  For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.  Horticulture Crops  Name of the crop  Stage  Pest and disease  Pest and disease  Pest and disease  Agro-meteorological advisories  In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.  Vegetative to flowering and fruiting For view for poer staking to support plants and avoid fruits to touch soil. Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculture may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.	Rice			nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing Land preparation for raising kharif rice nursery may be started.
Procure disease free quality seeds from reliable source. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.    Plot must be kept weed free to avoid insect/ pest.	Maize	Cob formation to		crop field.  - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
- 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.  - Plot must be kept weed free to avoid insect/ pest 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.  - Sowing may be done by from a fire rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.  - Sowing may be done by from a fire rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.  - Sowing may be done by from a fire rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.  - Sowing may be done by from a fire rains.  - For seed gurpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.  - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.  - Horticulture Crops  - Name of the crop - Stage - Pest and disease - Agro-meteorological advisories - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.  - Weeding may be done after rains Provide proper staking to support plants and avoid fruits to touch soil Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.		Land preparation		Procure disease free quality seeds from reliable source. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
- 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.  - Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.  - Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.  - For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required.  - For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.  - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.  - Weeding may be done after rains Provide proper staking to support plants and avoid fruits to touch soil Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.	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.
Free to avoid insect/ pest.	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
Post harvest management   Cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.    Horticulture Crops   Stage   Pest and disease   Agro-meteorological advisories	O	Sowing		
Name of the cropStagePest and diseaseAgro-meteorological advisoriesLime/ LemonTransplanting- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.CucurbitsVegetative to flowering and fruiting- Weeding may be done after rains Provide proper staking to support plants and avoid fruits to touch soil Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.	C			moisture content or weight of charcoal and dry if required.  For grains, store grains in well ventilated godowns after drying proper. Spray
Lime/ Lemon  Transplanting  - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.  Vegetative to flowering and fruiting  - Provide proper staking to support plants and avoid fruits to touch soil.  - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.		g,	D ( 1.11	
grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.  Cucurbits  Vegetative to flowering and fruiting  Frovide proper staking to support plants and avoid fruits to touch soil.  Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.			Pest and disease	Agro-meteorological advisories
flowering and fruiting  - Provide proper staking to support plants and avoid fruits to touch soil.  - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.				grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Colocasia Planting - Select healthy mother rhizome. Treat planting material before sowing.	Cucurbits	flowering and		<ul> <li>Provide proper staking to support plants and avoid fruits to touch soil.</li> <li>Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.</li> </ul>
	Colocasia	Planting		







* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck) All		Disease and Management  Ranikhet disease	<ul> <li>Agro-meteorological advisories</li> <li>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.</li> </ul>
* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck)  All	Stage All age groups	Disease and Management  Ranikhet disease	<ul> <li>area of 3ft width) using the repellent agent/ insecticides spray after rains.</li> <li>Agro-meteorological advisories</li> <li>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</li> </ul>
Name of bird/ animal  Poultry (Chicken/ Duck)  Al	Stage All age groups	Disease and Management  Ranikhet disease	Agro-meteorological advisories      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
animal Poultry (Chicken/ Duck) Al	all age groups	Management  • 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
(Chicken/ Duck)			using Lasota strain vaccine through ocular route if the age of chick is less than
Sheep/ Goat A	Il age groups	. C '1' '	21 days and anough hasai foute if it is older than 21 days.
Sheep/ Goat A	ll age groups	<ul> <li>Coccidiosis</li> </ul>	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
		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.</li> <li>Protect from after winds (loo).</li> </ul>
	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	xcept the young nes	Vaccination	Vaccinate against FMD and Swine Fever.
Oil	nes	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.     Protect from thunder showers especially during night.
	all age groups xcepts the young nes	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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</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
			Adequate care must be ensured for protecting from untimely strong rain/wince
<ul> <li>Fodder cultivation</li> </ul>	n: Berseem/ oat crop	may be sown immediately.	
Fishery	<del></del>		

- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.

  \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 1811 )	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

11<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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Imphal West
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> May, 2018)	(12 <sup>th</sup> to 16 <sup>th</sup> May, 2018)
Observed 30.5 mm rainfall with overcast sky during past	Likely to have thunderstorm with gusty winds at isolated places
three days. Maximum temperature recorded ranged from 22.8	upto 14 <sup>th</sup> May and widespread rains with mainly cloudy to overcast
to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative	sky with maximum temp. 24-25 °C & minimum temp. 15 °C.
humidity 92.0 % max and 74.3 % min was recorded in the	Relative humidity may reach up to 100 % (max RH) & 53 % (min
past three days.	RH). The average wind speed may be <b>2-4 km/hr</b> .

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle Initiation		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water
	(Pre-kharif rice)		if accumulated due to rain in crop field.
Rice			-Top dressing may be done after the rains.  - Collect well filled disease free quality seeds from reliable source for sowing
	Seed collection		nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.
	(Kharif rice)		- Land preparation for raising kharif rice nursery may be started.
			- Drainage may be constructed well to avoid water logging in and around the
	For Rabi Maize		crop field.
	Cob formation to Maturity		- Construct wind breaks to avoid uprooting of standing crops by the high speed
Maize	- Iviaturity		winds.
	Kharif maize		Land preparation for maize cultivation can be started after rains.
	Land preparation		Procure disease free quality seeds from reliable source. Treat seeds with
G 1	and seed collection		Carbendazim @ 2g/kg seeds before sowing after rains.
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest 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		- Plot must be kept weed free to avoid insect/ pest.
			- 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	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed
Bean			free to avoid insect/ pest.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
G 1 4	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		moisture content or weight of charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			National 170 on the wants of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or
			grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and
			Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Cucurbits	Vegetative to		- Weeding may be done after rains.
	flowering and		- Provide proper staking to support plants and avoid fruits to touch soil.
	fruiting		- Rotting of young fruits/ premature ripening of fruits if observed then Methyl
			Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides
Colocasia	Planting		like Cypermethrin may be sprayed. Neem oil may also be used Select healthy mother rhizome. Treat planting material before sowing.
Colocasia	1 failthig		- Select hearthy mother finzonie. Treat planting material before sowing.







* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck) All		Disease and Management  Ranikhet disease	<ul> <li>Agro-meteorological advisories</li> <li>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.</li> </ul>
* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck)  All	Stage All age groups	Disease and Management  Ranikhet disease	<ul> <li>area of 3ft width) using the repellent agent/ insecticides spray after rains.</li> <li>Agro-meteorological advisories</li> <li>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</li> </ul>
Name of bird/ animal  Poultry (Chicken/ Duck)  Al	Stage All age groups	Disease and Management  Ranikhet disease	Agro-meteorological advisories      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
animal Poultry (Chicken/ Duck) Al	all age groups	Management  • 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
(Chicken/ Duck)			using Lasota strain vaccine through ocular route if the age of chick is less than
Sheep/ Goat A	Il age groups	. C '1' '	21 days and anough hasai foute if it is older than 21 days.
Sheep/ Goat A	ll age groups	<ul> <li>Coccidiosis</li> </ul>	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
		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.</li> <li>Protect from after winds (loo).</li> </ul>
	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.
Oil		Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.     Protect from thunder showers especially during night.
ex	all age groups xcepts the young nes	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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</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
			Adequate care must be ensured for protecting from untimely strong rain/wince
<ul> <li>Fodder cultivation</li> </ul>	n: Berseem/ oat crop	may be sown immediately.	
Fishery	<del></del>		

- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.

  \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 1811 )	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





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#### ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



## **MANIPUR BULLETIN**

11<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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> May, 2018)
Observed 30.5 mm rainfall with overcast sky during
41 1

Observed 30.5 mm rainfall with overcast sky during past three days. Maximum temperature recorded ranged from 22.8 to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative humidity 92.0 % max and 74.3 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (12<sup>th</sup> to 16<sup>th</sup> May, 2018)

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. 21 °C & minimum temp. 12 °C. Relative humidity may reach up to 100 % (max RH) & 46 % (min RH). The average wind speed may be 2-4 km/hr.

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops		T =	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle Initiation		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water
	(Pre-kharif rice)		if accumulated due to rain in crop field.
Rice			-Top dressing may be done after the rains.
	Seed collection		- Collect well filled disease free quality seeds from reliable source for sowing
	(Kharif rice)		nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing Land preparation for raising kharif rice nursery may be started.
			- Drainage may be constructed well to avoid water logging in and around the
	For Rabi Maize		crop field.
	Cob formation to		- Construct wind breaks to avoid uprooting of standing crops by the high speed
Maize	Maturity		winds.
Willie	Kharif maize		Land preparation for maize cultivation can be started after rains.
	Land preparation		Procure disease free quality seeds from reliable source. Treat seeds with
	and seed collection		Carbendazim @ 2g/kg seeds before sowing after rains.
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest.
			- 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		- Plot must be kept weed free to avoid insect/ pest.
			- 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
D			@ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
Blackgram/ Rice	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed
Bean			free to avoid insect/ pest.
			For seed purpose store the seeds in RC-Seed Bin after proper drying and
C ]	Post harvest		cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for
Seeds storage	management		moisture content or weight of charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			Malaumon 1% on the wans of stores.
Name of the crop	Stage	Pest and disease	A are metaerological advisories
		Pest and disease	Agro-meteorological advisories  - In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or
Lime/ Lemon	Transplanting		grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and
			Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Cucurbits	Vegetative to		- Weeding may be done after rains.
Cucurbus	flowering and		- Provide proper staking to support plants and avoid fruits to touch soil.
	fruiting		- Rotting of young fruits/ premature ripening of fruits if observed then Methyl
			Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides
			like Cypermethrin may be sprayed. Neem oil may also be used.
Colocasia	Planting		- Select healthy mother rhizome. Treat planting material before sowing.
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#### Manipur Centre, Lamphelpat, Imphal - 795 004



#### "Gramin Krishi Mausam Seva"



Animal Science	es		
		ls to protect from strong wi	
			g area of 3ft width) using the repellent agent/insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	Vaccination	• 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.</li> <li>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	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.     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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</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
			Adequate care must be ensured for protecting from untimely strong rain/wind

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

#### **Fishery**

- \* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 18-1 19-1)	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

11<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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)

Observed 30.5 mm rainfall with overcast sky during past three days. Maximum temperature recorded ranged from 22.8 to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative humidity 92.0 % max and 74.3 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (12<sup>th</sup> to 16<sup>th</sup> May, 2018)

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. 22 °C & minimum temp. 13 °C. Relative humidity may reach up to 100 % (max RH) & 51 % (min RH). The average wind speed may be 2-4 km/hr.

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops	C40 000	Dogt and discour	A cuo motognologicol a Juizania
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Panicle Initiation		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water
	(Pre-kharif rice)		if accumulated due to rain in crop fieldTop dressing may be done after the rains.
Rice			- Collect well filled disease free quality seeds from reliable source for sowing
	Seed collection		nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.
	(Kharif rice)		- Land preparation for raising kharif rice nursery may be started.
			- Drainage may be constructed well to avoid water logging in and around the
	For Rabi Maize		crop field.
	Cob formation to		- Construct wind breaks to avoid uprooting of standing crops by the high speed
Maize	Maturity		winds.
	Kharif maize		Land preparation for maize cultivation can be started after rains.
	Land preparation		Procure disease free quality seeds from reliable source. Treat seeds with
	and seed collection		Carbendazim @ 2g/kg seeds before sowing after rains.
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest.
			- 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
G 1 4	G .		with Thiram.
Groundnut	Sowing		- Plot must be kept weed free to avoid insect/ pest.
			- 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	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed
Bean	Sowing		free to avoid insect/ pest.
Dean			For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
becas storage	management		For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops	1	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or
			grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and
			Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Cucurbits	Vegetative to		- Weeding may be done after rains.
	flowering and		- Provide proper staking to support plants and avoid fruits to touch soil.
	fruiting		- Rotting of young fruits/ premature ripening of fruits if observed then Methyl
			Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides
	<u> </u>		like Cypermethrin may be sprayed. Neem oil may also be used.
Colocasia	Planting		- Select healthy mother rhizome. Treat planting material before sowing.







* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck) All		Disease and Management  Ranikhet disease	<ul> <li>Agro-meteorological advisories</li> <li>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.</li> </ul>
* Disinfect the farm Name of bird/ animal Poultry (Chicken/ Duck)  All	Stage All age groups	Disease and Management  Ranikhet disease	<ul> <li>area of 3ft width) using the repellent agent/ insecticides spray after rains.</li> <li>Agro-meteorological advisories</li> <li>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</li> </ul>
Name of bird/ animal  Poultry (Chicken/ Duck)  Al	Stage All age groups	Disease and Management  Ranikhet disease	Agro-meteorological advisories      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
animal Poultry (Chicken/ Duck) Al	all age groups	Management  • 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
(Chicken/ Duck)			using Lasota strain vaccine through ocular route if the age of chick is less than
Sheep/ Goat A	Il age groups	. C '1' '	21 days and anough hasai foute if it is older than 21 days.
Sheep/ Goat A	ll age groups	<ul> <li>Coccidiosis</li> </ul>	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
		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.</li> <li>Protect from after winds (loo).</li> </ul>
	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.
Oil		Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.     Protect from thunder showers especially during night.
ex	all age groups xcepts the young nes	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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</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
			Adequate care must be ensured for protecting from untimely strong rain/wince
<ul> <li>Fodder cultivation</li> </ul>	n: Berseem/ oat crop	may be sown immediately.	
Fishery	<del></del>		

- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.

  \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 1811 )	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

11<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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of	Weather forecast for next five days of Thoubal
Imphal - West (8 <sup>th</sup> to 10 <sup>th</sup> May, 2018)	(12 <sup>th</sup> to 16 <sup>th</sup> May, 2018)
Observed 30.5 mm rainfall with overcast sky during past	Likely to have thunderstorm with gusty winds at isolated places
three days. Maximum temperature recorded ranged from 22.8	upto 14 <sup>th</sup> May and widespread rains with mainly cloudy to overcast
to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative	sky with maximum temp. 25-26 °C & minimum temp. 15-16 °C.
humidity 92.0 % max and 74.3 % min was recorded in the	Relative humidity may reach up to 100 % (max RH) & 44 % (min
past three days.	RH). The average wind speed may be <b>0-4 km/hr</b> .

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops					
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
P.	Panicle Initiation (Pre-kharif rice)		<ul> <li>Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.</li> <li>Top dressing may be done after the rains.</li> </ul>		
Rice	Seed collection (Kharif rice)		<ul> <li>Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.</li> <li>Land preparation for raising kharif rice nursery may be started.</li> </ul>		
Maize	For Rabi Maize Cob formation to Maturity		<ul> <li>Drainage may be constructed well to avoid water logging in and around the crop field.</li> <li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li> </ul>		
	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started after rains.  Procure disease free quality seeds from reliable source. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.		
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest 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		- Plot must be kept weed free to avoid insect/ pest 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 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 proper. Spray Malathion 1% on the walls of stores.		
Horticulture Crops					
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.		
Cucurbits	Vegetative to flowering and fruiting		<ul> <li>Weeding may be done after rains.</li> <li>Provide proper staking to support plants and avoid fruits to touch soil.</li> <li>Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.</li> </ul>		
Colocasia	Planting		- Select healthy mother rhizome. Treat planting material before sowing.		







Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.	
Animal Scienc	es			
		ls to protect from strong win		
			g area of 3ft width) using the repellent agent/insecticides spray after rains.	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories	
Poultry All age groups (Chicken/Duck)	All age groups	Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.	
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.	
Sheep/ Goat All age gr	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.</li> <li>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	Vaccination	Vaccinate against FMD and Swine Fever.	
	ones	Skin disease	• Sprayer of Anti-Psoroptic may be used.	
		Management	Breeding must be advocated continuously.     Protect from thunder showers especially during night.	
exc	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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</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	
			Adequate care must be ensured for protecting from untimely strong rain/wind	
<ul> <li>Fodder cultiva</li> </ul>	ution: Berseem/ oat cro	p may be sown immediately.		
Fishery				

- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.

  \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
Carp culture nurserie	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
Grow	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the
fish culture			rice fields can be converted into trenches/ditch/channels for paddy cum fish
iibii cuitui c			culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
( 1811 )	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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





Manipur Centre, Lamphelpat, Imphal - 795 004

#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West  $(8^{th} \ to \ 10^{th} \ May, 2018)$ 

Observed 30.5 mm rainfall with overcast sky during past three days. Maximum temperature recorded ranged from 22.8 to 26.8 °C and minimum of 15.4 to 19.3 °C with mean relative humidity 92.0 % max and 74.3 % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (12<sup>th</sup> to 16<sup>th</sup> May, 2018)

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. 22 °C & minimum temp. 13 °C. Relative humidity may reach up to 88 % (max RH) & 37 % (min RH). The average wind speed may be 2-4 km/hr.

<sup>\*</sup> Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains.

Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop fieldTop dressing may be done after the rains.
	Seed collection (Kharif rice)		<ul> <li>Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.</li> <li>Land preparation for raising kharif rice nursery may be started.</li> </ul>
Maize	For Rabi Maize Cob formation to Maturity		<ul><li>Drainage may be constructed well to avoid water logging in and around the crop field.</li><li>Construct wind breaks to avoid uprooting of standing crops by the high speed winds.</li></ul>
	Kharif maize Land preparation and seed collection		Land preparation for maize cultivation can be started after rains.  Procure disease free quality seeds from reliable source. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
Soybean	Sowing		- Plot must be kept weed free to avoid insect/ pest 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		- Plot must be kept weed free to avoid insect/ pest 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 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 proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	T		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
Cucurbits	Vegetative to flowering and fruiting		<ul> <li>Weeding may be done after rains.</li> <li>Provide proper staking to support plants and avoid fruits to touch soil.</li> <li>Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.</li> </ul>
Colocasia	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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



#### "Gramin Krishi Mausam Seva"



Animal Science	es		
		ls to protect from strong wi	
			g area of 3ft width) using the repellent agent/insecticides spray after rains.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		Coccidiosis	Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat All age groups	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.</li> <li>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	Vaccination	Vaccinate against FMD and Swine Fever.
ones	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		Management	Breeding must be advocated continuously.     Protect from thunder showers especially during night.
	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</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed/water to avoid loss of essential body salts.</li> </ul>
			Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			• Adequate care must be ensured for protecting from untimely strong rain/wind

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

#### **Fishery**

- \* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.
- \* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.
- \* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.

Type of Farming	Stage	management	Agro-metrological advisories
	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha.  Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
(Ngakra)	Fish		Male and female brooder fishes may be segregated for breeding operations.
(8	Feed		Well balanced feed may be fed @ 3-5% body weight/day.



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

