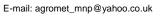


ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"





### MANIPUR BULLETIN

# 15<sup>th</sup> December, 2017

### <u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Bishnupur (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	have dense to very dense fog and sky may remain mainly clear during
temperature range of 21.2 to 23.7 ° C and minimum temperature	afternoon hours. The maximum temp. 22 - 23 °C & minimum temp. 9 -
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
* Drain out excess w infestation.	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation stage		<ul> <li>If <i>Whip tail</i> is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.</li> <li>At this stage 4 kg DAP + 4 kg K<sub>2</sub>O for 2000 plants may be applied.</li> </ul>
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field

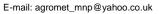




Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exce	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.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may	be sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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





### MANIPUR BULLETIN

## 15<sup>th</sup> December, 2017

## <u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Chandel (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	
temperature range of 21.2 to 23.7 ° C and minimum temperature	
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
* Drain out excess w infestation.	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation stage		<ul> <li>If <i>Whip tail</i> is observed in cauliflower, spray Borax @ 3g/ lit of wate or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.</li> <li>At this stage 4 kg DAP + 4 kg K<sub>2</sub>O for 2000 plants may be applied.</li> </ul>
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exce	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.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may	be sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.





# MANIPUR BULLETIN

## 15<sup>th</sup> December, 2017

### **Churachandpur**

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Churachandpur (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	have dense to very dense fog and sky may remain mainly clear during
temperature range of 21.2 to 23.7 ° C and minimum temperature	afternoon hours. The maximum temp. 22 - 23 °C & minimum temp. 9 -
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 2-4 km/hr.

Field Crops		1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation stage		<ul> <li>If <i>Whip tail</i> is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.</li> <li>At this stage 4 kg DAP + 4 kg K<sub>2</sub>O for 2000 plants may be applied.</li> </ul>
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exce	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.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may	be sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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

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### **MANIPUR BULLETIN**

## 15<sup>th</sup> December, 2017

### **Imphal East**

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Imphal East (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with <b>11.5 mm</b> rainfall. Maximum temperature range of 21.2 to 23.7 °C and minimum temperature	have dense to very dense fog and sky may remain mainly clear during afternoon hours. The maximum temp. $22 - 23$ °C & minimum temp. $9 -$
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	11 $^{\circ}$ C and relative humidity may reach up to 82 % (max RH) & 50 %
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 2-4 km/hr.

<i>Field Crops</i> Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	<ul> <li>If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.</li> </ul>

		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water
	stage		or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to
			recommended dose of fertilizer.
			- At this stage 4 kg DAP + 4 kg $K_2O$ for 2000 plants may be applied.
Coriander/	Vegetative		- Avoid water logging in and around the crop field
<b>Onion/ Garlic</b>			





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may	be sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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

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### MANIPUR BULLETIN

## 15<sup>th</sup> December, 2017

## Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Imphal West (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with <b>11.5 mm</b> rainfall. Maximum temperature range of 21.2 to 23.7 °C and minimum temperature	have dense to very dense fog and sky may remain mainly clear during afternoon hours. The maximum temp. $22 - 23$ °C & minimum temp. $9 -$
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	11 $^{\circ}$ C and relative humidity may reach up to 82 % (max RH) & 50 %
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 2-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			· · ·
	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	<ul> <li>If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.</li> </ul>

		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water
	stage		or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to
			recommended dose of fertilizer.
			- At this stage 4 kg DAP + 4 kg K <sub>2</sub> O for 2000 plants may be applied.
Coriander/	Vegetative		- Avoid water logging in and around the crop field
<b>Onion/ Garlic</b>			

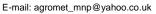




Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may	be sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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





#### MANIPUR BULLETIN

## 15<sup>th</sup> December, 2017

### <u>Senapati</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16<sup>th</sup> to 20<sup>th</sup> December, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Senapati (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	
temperature range of 21.2 to 23.7 ° C and minimum temperature	
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	8 $^{\circ}$ C and relative humidity may reach up to 70 % (max RH) & 42 %
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

#### Horticulture Crops

\* Drain out excess water that had been accumulated due to rains during past few days. Regular monitoring may be done for insect pest infestation.

infestation.			-
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/		- Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth
	bearing trees		of 1 ft. to prevent Verticillium wilt.
			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as
			prophylactic measure against bark borer/ termites.
Cabbage/	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of
Cauliflower			water to remove aphid/ or remove infected plant part. But if the
			infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		caterpillar	
Cauliflower	Curd initiation		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water
	stage		or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to
	-		recommended dose of fertilizer.
			- At this stage 4 kg DAP + 4 kg $K_2O$ for 2000 plants may be applied.
Coriander/	Vegetative		- Avoid water logging in and around the crop field
<b>Onion/ Garlic</b>			





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	• Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	ation: Oat crop may	be sown immediately.	
Fishery:	-		
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



### MANIPUR BULLETIN

## 15<sup>th</sup> December, 2017

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### **Tamenglong**

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Tamenglong (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	have dense to very dense fog and sky may remain mainly clear during
temperature range of 21.2 to 23.7 ° C and minimum temperature	
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	9 $^{\circ}$ C and relative humidity may reach up to 72 % (max RH) & 43 %
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
* Drain out excess wa infestation.	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	<ul> <li>If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.</li> </ul>

		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation stage		<ul> <li>If <i>Whip tail</i> is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.</li> <li>At this stage 4 kg DAP + 4 kg K<sub>2</sub>O for 2000 plants may be applied.</li> </ul>
Coriander/ Onion/ Garlic	Vegetative		- Avoid water logging in and around the crop field





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	vation: Oat crop may	be sown immediately.	
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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



### **MANIPUR BULLETIN**

## 15<sup>th</sup> December, 2017

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### <u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Thoubal (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	have dense to very dense fog and sky may remain mainly clear during
temperature range of 21.2 to 23.7 ° C and minimum temperature	
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	11 $^{\circ}$ C and relative humidity may reach up to 82 % (max RH) & 50 %
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late variety)/ Field Pea	Vegetative		<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during past few days.</li> <li>Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.</li> <li>For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.</li> </ul>
Rabi Maize	Land preparation to sowing		<ul> <li>Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.</li> <li>Rabi maize may be sown as intercrop with potato or pulses. 60cm width 40cm high ridges along east-west may be prepared after ploughing. Southern face may be sown with maize and northern with pea seeds.</li> </ul>
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
	ater that had been a	ccumulated due to rai	ns during past few days. Regular monitoring may be done for insect pest
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/ bearing trees		<ul> <li>Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth of 1 ft. to prevent Verticillium wilt.</li> <li>20g Carbofuran 3G/ plant may also be in-corporated in soil as prophylactic measure against bark borer/ termites.</li> </ul>
Cabbage/ Cauliflower/ Tomato/ Potato	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of water to remove aphid/ or remove infected plant part. But if the infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating caterpillar	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
Cauliflower	Curd initiation stage		<ul> <li>If <i>Whip tail</i> is observed in cauliflower, spray Borax @ 3g/ lit of water or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to recommended dose of fertilizer.</li> <li>At this stage 4 kg DAP + 4 kg K<sub>2</sub>O for 2000 plants may be applied.</li> </ul>
Coriander/ Onion/ Garlic	Vegetative		<ul> <li>Avoid water logging in and around the crop field</li> </ul>





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	• Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	vation: Oat crop may	be sown immediately.	
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.



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





### MANIPUR BULLETIN

## 15<sup>th</sup> December, 2017

## <u>Ukhrul</u>

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16<sup>th</sup> to 20<sup>th</sup> December, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (12 <sup>th</sup> to 14 <sup>th</sup> December, 2017)	Weather forecast for next five days of Ukhrul (16 <sup>th</sup> to 20 <sup>th</sup> December, 2017)
Observed partly cloudy to overcast sky and foggy morning hours	Likely to have no rains upto Wednesday. Morning hours is likely to
during past three days with 11.5 mm rainfall. Maximum	have dense to very dense fog and sky may remain mainly clear during
temperature range of 21.2 to 23.7 ° C and minimum temperature	
range of 12.0 to 18.3 °C with mean relative humidity 94.7 % max	9 $^{\circ}$ C and relative humidity may reach up to 72 % (max RH) & 43 %
and 65.0 % min was recorded in the past three days.	(min RH). The average wind speed may be 4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rapeseed/ Mustard/ Lentil/ Blackgram (late			<ul> <li>Thinning may be done where plant population is high.</li> <li>Drain out excess water that had been accumulated due to rains during</li> </ul>
	Vegetative		past few days.
			- Spray Cypermethrin @2ml/lit of water or Nuvan @ 0.5ml/ lit of water against aphid.
variety)/ Field Pea			- For organic control against aphid, sprays that consist of Azadirachtin,
			neem oil or Pyrethrin may be used.
	Land		- Land preparation for sowing rabi maize may be started when the soil moisture is favourable for land preparation.
Rabi Maize	preparation to		- Rabi maize may be sown as intercrop with pulses. 60cm width 40cm
	sowing		high ridges along east-west may be prepared after ploughing. Southern
			face may be sown with maize and northern with pea seeds.
			For seed purpose dry, clean and store the seeds in RC-seed bins after
	Post harvest		proper drying of seeds along with charcoal at 80:20. Check for moisture
Seeds storage	management		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

\* Drain out excess water that had been accumulated due to rains during past few days. Regular monitoring may be done for insect pest infestation.

infestation.	•		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Pre-bearing/		- Apply Carbendazim @ 2g/ lit water in the surrounding soil to a depth
	bearing trees		of 1 ft. to prevent Verticillium wilt.
			- 20g Carbofuran 3G/ plant may also be in-corporated in soil as
			prophylactic measure against bark borer/ termites.
Cabbage/	Vegetative	Aphid	- If Infestation of aphid is less, drench the plant with strong sprays of
Cauliflower			water to remove aphid/ or remove infected plant part. But if the
			infestation is severe, spray evenly insecticidal soap or neem oil.
		leaf eating	- Spray Flubendiamide (Fame) @ 2ml/ 10 lit of water.
		caterpillar	
Cauliflower	Curd initiation		- If Whip tail is observed in cauliflower, spray Borax @ 3g/ lit of water
	stage		or spray Tracel (micronutrient @ 5 g/ lit of water) in addition to
			recommended dose of fertilizer.
			- At this stage 4 kg DAP + 4 kg $K_2O$ for 2000 plants may be applied.
Coriander/	Vegetative		- Avoid water logging in and around the crop field
<b>Onion/ Garlic</b>			





Animal Science	es		
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	All age groups	Management	<ul> <li>Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time.</li> <li>Litter must be stirred frequently and aired every day.</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month.</li> <li>Take adequate care to prevent occurrence of Mastitis.</li> <li>PPR immunization must be done once in every three years.</li> </ul>
		• De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
		<ul> <li>Shearing for wool</li> </ul>	• Sheep should be sheared during this month.
Pig	All age groups	<ul> <li>Coccidial infection</li> </ul>	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	except the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD.
		Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
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	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	vation: Oat crop may	be sown immediately.	
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Grow-out	Pond water	<ul> <li>Lime/ Aqua magic should be applied regularly to keep good quality pond water. Water depth should be maintained at 1.0-1.5m.</li> <li>Replace half of pond water with fresh &amp; clean water at every 25-30 days interval.</li> <li>Minimum feed must be provided, i.e., @ 1-2% of body weight per day.</li> </ul>
		Harvest	- As per market demand harvesting may be started.
		Feeding	- Feeds should be provided 2 times a day.