

Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

## 10<sup>th</sup> November, 2017

## **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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (7 <sup>th</sup> to 9 <sup>th</sup> November, 2017)

& sowing

Observed clear sky and  ${\bf no}$  rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Bishnupur (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 29 -  $30\,^{\circ}$  C & minimum temp. 12 -  $13\,^{\circ}$  C and relative humidity may reach up to  $100\,\%$  (max RH) &  $41\,\%$  (min RH). The average wind speed may be  $2\,\text{km/hr}$ .

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

past three days.			% (min RH). The average wind speed may be 2 km/hr.		
Field Crops					
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Rice	Harvesting to post harvesting		<ul> <li>Immediately harvest mature crops before rains on Wednesday.</li> <li>Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing.</li> <li>After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>		
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>		
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.		
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.		
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					
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories		
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.		
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.		
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>		
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding		



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Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• 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
	All age groups		Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-out			Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



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## "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

10<sup>th</sup> November, 2017

### **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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

# Significant past weather for the preceding bi-weekly of Imphal - West ( $7^{th}$ to $9^{th}$ November, 2017)

& sowing

Observed clear sky and **no** rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Chandel (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 27 - 28  $^{\circ}$  C & minimum temp. 10 - 11  $^{\circ}$  C and relative humidity may reach up to 99 % (max RH) & 50 % (min RH). The average wind speed may be 3 km/hr.

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

past three days.			(min RH). The average wind speed may be 3 km/nr.
E: 11.0			
Field Crops Name of the crop	Ctoro	Doot and discour	A sus motornological a hidrarias
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories - Immediately harvest mature crops before rains on Wednesday.
Rice	Harvesting to post		- Harvested panicles may be stacked for 5-7 days and turned regularly for bett
Rice	harvesting		threshing.
	nai vesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field i
			slightly in muddy condition.
	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Rapeseed/ Mustard	and sowing		- Recommended variety – M-27. Seed rate is 10-12 kg/ha.
	and sowing		- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
			Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	Seed collection		spacing of 30cm X 10-15cm.
1101011011	and sowing		Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as rela
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shace
()			then sow it.
			For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper dryin
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spra
			Malathion 1% on the walls of stores.
Horticulture Crops			
Light watering during	morning hours is advise	ed for the rabi crops (e	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 m <sup>2</sup> and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m <sup>2</sup> .
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
	0		Ct 50WD :- th:1 -fh1 Ci hi-t-i1 -t 10 20 25



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Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• 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
	All age groups		Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-out			Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



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#### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

## 10<sup>th</sup> November, 2017

## **Churachandpur**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

# Significant past weather for the preceding bi-weekly of Imphal - West (7<sup>th</sup> to 9<sup>th</sup> November, 2017)

& sowing

Observed clear sky and **no** rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Churachandpur (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 28 - 29 °C & minimum temp. 9 - 11 °C and relative humidity may reach up to 100 % (max RH) & 36 % (min RH). The average wind speed may be 4 km/hr.

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

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
Rice	Harvesting to post harvesting		<ul> <li>Immediately harvest mature crops before rains on Wednesday.</li> <li>Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing.</li> <li>After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field i slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relactor in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
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. Spra Malathion 1% on the walls of stores.
Horticulture Crops			Manufacture with 61 stores
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.  - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding



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Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• 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
	All age groups		Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-out			Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



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### "Gramin Krishi Mausam Seva"



### **MANIPUR BULLETIN**

## 10<sup>th</sup> November, 2017

#### 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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (7 <sup>th</sup> to 9 <sup>th</sup> November, 2017)

Observed clear sky and  ${\bf no}$  rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Imphal East (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 28 - 29  $^{\circ}$  C & minimum temp. 10 - 12  $^{\circ}$  C and relative humidity may reach up to 100 % (max RH) & 34 % (min RH). The average wind speed may be 4-5 km/hr.

apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

past timee days.			% (mini Kri). The average wind speed may be 4-3 km/m.
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		<ul> <li>Immediately harvest mature crops before rains on Wednesday.</li> <li>Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing.</li> <li>After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field i slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relacrop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper dryin of seeds along with charcoal at 80:20. Check for moisture content or weight charcoal and dry if required.  For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops	1		
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm



# Manipur Centre, Lamphelpat, Imphal - 795 004



Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• 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
	All age groups		Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-out			Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



Manipur Centre, Lamphelpat, Imphal - 795 004





#### **MANIPUR BULLETIN**

10<sup>th</sup> November, 2017

### 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  $1\bar{1}^{th}$  to  $15^{th}$  November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (7 <sup>th</sup> to 9 <sup>th</sup> November, 2017)
Observed clear sky and no rainfall was recorded during past three
days. Maximum temperature range of 27.8 to 28.4 ° C an

(11<sup>th</sup> to 15<sup>th</sup> November, 2017) nd

minimum temperature range of 12.0 to 12.4 ° C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 28 - 29 ° C & minimum temp. 10 - 12 °C and relative humidity may reach up to 100 % (max RH) & 36 % (min RH). The average wind speed may be 4-5 km/hr.

apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

Weather forecast for next five days of Imphal West

past three days.			% (min RH). The average wind speed may be 4-5 km/hr.
Field Cuena			
Field Crops Name of the crop	Store	Pest and disease	A gray matagral advisories
Name of the crop	Stage	rest and disease	Agro-meteorological advisories - Immediately harvest mature crops before rains on Wednesday.
Rice	Harvesting to post		- Harvested panicles may be stacked for 5-7 days and turned regularly for bett
Rice	harvesting to post		threshing.
	nar vesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field
			slightly in muddy condition.
D 1/3/5 / 1	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Rapeseed/ Mustard	and sowing		- Recommended variety – M-27. Seed rate is 10-12 kg/ ha.
			- Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then
			sow for the control of white rust and Downey Mildew at seedling stage.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	and sowing		spacing of 30cm X 10-15cm.
	and sowing		Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as rela
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad
			then sow it.
	D. (1)		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying
Canda ataman	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight
Seeds storage	management		charcoal and dry if required.  For grains, store grains in well ventilated godowns after drying proper. Spra
			Malathion 1% on the walls of stores.
Horticulture Crops			Manufacture Walls of Stores
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 m <sup>2</sup> and mix thoroughly to
C!	I and managedic:		improve soil fertility. Seed rate is 100g seeds for 100 m <sup>2</sup> .  - Well drained soil is best for growing spinach beet. Avoid damping off by adding
Spinach (Palak)	Land preparation		
	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm



# Manipur Centre, Lamphelpat, Imphal - 795 004



Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	_	ot 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
	All a	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



Manipur Centre, Lamphelpat, Imphal - 795 004

## "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

10<sup>th</sup> November, 2017

## **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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (7 <sup>th</sup> to 9 <sup>th</sup> November, 2017)

& sowing

Observed clear sky and **no** rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Senapati (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 23 - 25 °C & minimum temp. 9 - 11 °C and relative humidity may reach up to 100 % (max RH) & 29 % (min RH). The average wind speed may be 3-5 km/hr.

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

past three days.			(min RH). The average wind speed may be 3-5 km/hr.
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting	Test and discuse	<ul> <li>Immediately harvest mature crops before rains on Wednesday.</li> <li>Harvested panicles may be stacked for 5-7 days and turned regularly for bett threshing.</li> <li>After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relactor in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper dryin of seeds along with charcoal at 80:20. Check for moisture content or weight charcoal and dry if required.  For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding



\* Partial/ total harvesting of fish should be done.

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

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



# "Gramin Krishi Mausam Seva"

Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
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 a	ge groups	Vaccination	<ul> <li>Vaccinate against B.Q./ H.S. this time.</li> <li>Lambs should be vaccinated against Enterotoxaemia.</li> </ul>
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	_	ot 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.
• Fodder cultiva	ation: O	at/ Chinese cab	bage/ Berseum may be grown	•
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.  Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.

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

Sampling of fish for growth, disease should be done regularly by netting.



Manipur Centre, Lamphelpat, Imphal - 795 004

### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

10<sup>th</sup> November, 2017

## **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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

# Significant past weather for the preceding bi-weekly of Imphal - West (7<sup>th</sup> to 9<sup>th</sup> November, 2017)

& sowing

Observed clear sky and **no** rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Tamenglong (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 28 - 29 °C & minimum temp. 9 - 11 °C and relative humidity may reach up to 100 % (max RH) & 35 % (min RH). The average wind speed may be 4 km/hr.

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

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
Rice	Harvesting to post harvesting		<ul> <li>Immediately harvest mature crops before rains on Wednesday.</li> <li>Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing.</li> <li>After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relaction in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
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 charcoal and dry if required.  For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops	L		
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding



# Manipur Centre, Lamphelpat, Imphal - 795 004



Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	_	ot 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
	All a	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



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#### **MANIPUR BULLETIN**

10<sup>th</sup> November, 2017

### **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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

Significant past weather for the preceding bi-weekly of	
Imphal - West (7 <sup>th</sup> to 9 <sup>th</sup> November, 2017)	

& sowing

Observed clear sky and  ${\bf no}$  rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Thoubal (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 27 - 28  $^{\circ}$  C & minimum temp. 10 - 11  $^{\circ}$  C and relative humidity may reach up to 100 % (max RH) & 46 % (min RH). The average wind speed may be 0-2 km/hr.

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

past three days.			% (min RH). The average wind speed may be 0-2 km/hr.
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		<ul> <li>- Immediately harvest mature crops before rains on Wednesday.</li> <li>- Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing.</li> <li>- After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relative crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
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			Transition 1/0 on the walls of stores
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding



# Manipur Centre, Lamphelpat, Imphal - 795 004



Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m <sup>2</sup> area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato		Tuber seed treatment and		Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Cincon/Trans		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
Ginger/ Turm	eric	formation		* *
		TOTITIALION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es		<u> </u>	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	<ul> <li>Management</li> </ul>	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	<ul> <li>Vaccination</li> </ul>	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.
	_	ot 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
	All a	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cabl	page/ Berseum may be grown	
Fishery:	_		1	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
			T' 1	crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	



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### "Gramin Krishi Mausam Seva"



#### **MANIPUR BULLETIN**

10<sup>th</sup> November, 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 11<sup>th</sup> to 15<sup>th</sup> November, 2017 as below:

# Significant past weather for the preceding bi-weekly of Imphal - West (7<sup>th</sup> to 9<sup>th</sup> November, 2017)

& sowing

Observed clear sky and **no** rainfall was recorded during past three days. Maximum temperature range of 27.8 to 28.4  $^{\circ}$  C and minimum temperature range of 12.0 to 12.4  $^{\circ}$  C with mean relative humidity 93 % max and 39 % min was recorded in the past three days.

# Weather forecast for next five days of Ukhrul (11<sup>th</sup> to 15<sup>th</sup> November, 2017)

Likely to have light rains on Wednesday with shallow to moderate fog during morning hours and mainly clear to partly cloudy sky during afternoon hours. The maximum temp. 25 - 27  $^{\circ}$  C & minimum temp. 10 - 11  $^{\circ}$  C and relative humidity may reach up to 99 % (max RH) & 45 % (min RH). The average wind speed may be 4-5 km/hr.

Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m<sup>2</sup>. If broadcasting is done, double the dose is

past three days.			(min RH). The average wind speed may be 4-5 km/hr.
T: 11 C			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		<ul> <li>Immediately harvest mature crops before rains on Wednesday.</li> <li>Harvested panicles may be stacked for 5-7 days and turned regularly for bett threshing.</li> <li>After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.</li> </ul>
Rapeseed/ Mustard	Seed collection and sowing		<ul> <li>Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field slightly in muddy condition.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha.</li> <li>Treat seeds with Mancozeb @2g/kg seed and dry for 30 mins in the shade then sow for the control of white rust and Downey Mildew at seedling stage.</li> </ul>
Field Pea	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm.  Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relactor in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
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 charcoal and dry if required.  For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding



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Ginger/ Turm	eric Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
	formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Sciences			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//			hessian cloth/ polythene sheet during night time.
Duck)			Litter must be stirred frequently and aired every day.
Sheep/ Goat	All age groups	Vaccination	Vaccinate against B.Q./ H.S. this time.

• Shearing for wool • Sheep should be sheared during this month. Pig All age groups • Coccidial infection • Ofloxacine/ Ornidazole (O2) tab twice daily for 5 days. except the young • De-worm with Albendazole @7.5 mg/kg b.wt. • De-worming

• De-worming

• Vaccinate against FMD. Vaccination • Skin disease • Sprayer of Anti-Psoroptic may be used

All age groups Vaccination • Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cattle excepts the young • Cases of H.S. may be encountered during this period ones • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.

> • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml • Deworming for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed.

> > • Avoid the cattle from chiting/biting by Flies

• Lambs should be vaccinated against Enterotoxaemia.

• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.

• Adopt tick control measures Mastitis • Adequate care must be ensured for prevention of mastitis for the milch animals.

• Fodder cultivation: Oat/ Chinese cabbage/ Berseum may be grown.

ones

Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.  Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.  Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ tota	al harvesting of fish	should be done	Sampling of fish for grown, disease should be done regularly by neuting.

Partial/ total harvesting of fish should be done.

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