

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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}$ to $17^{th}$ November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

## Weather forecast for next five days of Chandel (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $26.0-28.0\,^{\circ}$ C & minimum temp.  $10.0-12.0\,^{\circ}$ C. Relative humidity may reach upto 99 % (maximum RH) & 62 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown.
			Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds
			with Mencozeb @2g/kg seed for the control of white rust and downey
			mildew at seedling stage.
			- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before
Eigld and	Carriera		sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm.
Totato	Training		- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
			25-30 quintals/ hectare.
			- Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half
			hour.
			- Incubation of seeds in the sand bed for about 7-10 days for sprouting of
			seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
			for germination of seeds or fungal growth. After proper drying, store
TI II C			grains/ seeds in well ventilated godowns.
Horticulture Crops	-1 (1 50/) doi: 1 @ 25	' 1 /l 4 4l1:£1	and a state of the second
* Apply Cnioropyrip		kg/na to the caumi	ower/ cabbage, if infested by cut-worm.
	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land		- To avoid wilt in pea or premature/ yellowing of lower leaves and
	preparation		incomplete filling of pods, apply Carbendazim. If the problem was there
			in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued.
Caumiowei	Transplanting		- Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid
			leaf curling, development of purple coloured vein due to absence of
			micronutrient. If required repeat it after 10 days.
Coriander	Land		- Select area with bright sunshine rich in organic manure for preparing
	preparation &		beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before
	sowing		sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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### "Integrated Agromet Advisory Services"

				thoroughly to improve soil fertility Seed rate is 100g seeds for 100 sq. m.	
Spinach (Pa		Land preparation & sowing		<ul> <li>Well drained soil is best for growing spinach beet.</li> <li>Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>Seed rate is 100-120g/100 sq m. If broadcasting is done, double the dose is required.</li> </ul>	
Onion	Nursery raising			<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> <li>For 25 sq m area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>	
Animal Sci					
				e sheds of birds and animals.	
Name of the an		rowth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	gı	ll susceptible age roups (as and when	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
	re	equired)		Increase energy feed content like maize in feed.	
Sheep/ Goat	ag	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
	re		Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.	
			Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		bove 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
_		ge (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	re	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa Mithun	ag	bove 3 months of ge (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
	re	equired)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:			1		
		Agro-metrological adviso	ries		
Carp/	Harvesting and stock maintenance		- Fish harvesting can be done.		
Catfish			<ul> <li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li> <li>Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.</li> </ul>		
culture					
				vided 1-2 times a day @ 3 % body weight per day.	
			<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>		
			- Apply Green AQ @	4Hire/ ha of hine @ 200kg/ ha. Maintain good quanty of pond water.	



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# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}$ to $17^{th}$ November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

## Weather forecast for next five days of Churachandpur (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $25.0-27.0\,^{\circ}$ C & minimum temp.  $8.0-10.0\,^{\circ}$ C. Relative humidity may reach upto  $100\,\%$  (maximum RH) &  $50\,\%$  (minimum RH). The average wind speed may be  $3-4\,$  km/ hr during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
rume of the crop	Singe	infestation	rigio inoteororogical advisories
Field Crops	<u> </u>		
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		<ul> <li>Zero tillage rape seed may be sown.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> </ul>
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		<ul> <li>Sowing may be done at a spacing of 60cm X 15-20cm.</li> <li>Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.</li> <li>Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.</li> <li>Incubation of seeds in the sand bed for about 7-10 days for sprouting or seed is also advisable. Sow seed at about 3 inch depth.</li> </ul>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Chec for germination of seeds or fungal growth. After proper drying, stor grains/ seeds in well ventilated godowns.
Horticulture Crops			·
* Apply Chloropyrip	ohos (1.5%) dust @25	kg/ha to the caulifle	ower/ cabbage, if infested by cut-worm.
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		<ul> <li>- Transplanting of 25-30 days old seedlings may be continued.</li> <li>- Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.</li> </ul>
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Treat soil 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 sq. m and mix</li> </ul>



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				thoroughly to improve soil fertility.	
				- Seed rate is 100g seeds for 100 sq. m.	
Spinach (Palak)		Land		- Well drained soil is best for growing spinach beet.	
		preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.	
		sowing		Spacing may be maintained at 10cm x 20-25cm apart.	
				- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the	
				dose is required.	
Onion		Nursery raising		- Apply Captan 50 WP during final land preparation as preventive	
				measures against soil borne diseases.	
				- For 25 sq m area we need ½ kg seeds.	
				- check that the new sprouts/ young plants in nursery beds are not	
				damaged.	
				- 45-60 days old seedlings may be transplanted.	
Animal Sci					
				e sheds of birds and animals.	
Name of the ar	imal	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
		groups (as and when required)		along with glucose.	
				Increase energy feed content like maize in feed.	
Sheep/ Goat	t	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
				pregnancy.	
			Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.	
			Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
_		age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
		required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa	ılo/	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun		age (as and when		young stock.	
		required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of	Stage	&	Agro-metrological advisor	ries	
Farming		gement	11510 men ological duvisor	A A DU	
Carp/	Harvesting and stock		- Fish harvesting can be done.		
Catfish	main	tenance		ear and for this practices mentioned below may be done in small scale.	
culture				e from unwanted vegetation and insects and water depth should be	
			maintained at 1.0 - 1.5		
			- Feeds should be prov	vided 1-2 times a day @ 3 % body weight per day.	
				Fortified with vitamins and minerals should be provided.	
			- Apply Green AQ @	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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#### Imphal-East

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### Weather forecast for next five days of Imphal-East (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $27.0-28.0\,^{\circ}\text{C}$  & minimum temp.  $9.0-10.0\,^{\circ}\text{C}$ . Relative humidity may reach upto  $100\,\%$  (maximum RH) & 48 % (minimum RH). The average wind speed may be  $2\,\text{km/hr}$  during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops	<u> </u>		
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown.
			Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey
			mildew at seedling stage.
			- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		- Sowing may be done at a spacing of 60cm X 15-20cm.
			- Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.
			- Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half
			hour.
			- Incubation of seeds in the sand bed for about 7-10 days for sprouting of
			seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops			grams/ seeds in went ventuated godowns.
	phos (1.5%) dust @25	kg/ha to the cauliflo	wer/ cabbage, if infested by cut-worm.
Onion	Transplanting	rig that to the edulitio	- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land		- To avoid wilt in pea or premature/ yellowing of lower leaves and
Garden i ca	preparation		incomplete filling of pods, apply Carbendazim. If the problem was there
	preparation		in last year, then follow crop rotation. Also, land must be ploughed
			properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued.
			- Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid
			leaf curling, development of purple coloured vein due to absence of
			micronutrient. If required repeat it after 10 days.
Coriander	Land		- Select area with bright sunshine rich in organic manure for preparing
	preparation &		beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before
	sowing		sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility Seed rate is 100g seeds for 100 sq. m.		
Spinach (Pal	Land preparation & sowing		<ul> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>		
Onion	Nursery raising		<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> <li>For 25 sq m area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>		
Animal Scie					
			e sheds of birds and animals.		
Name of the ani	Olo will stage	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptible age groups (as and who		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.		
	required)		Increase energy feed content like maize in feed.		
Sheep/ Goat	Above 3 months of age (as and when	1000100	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.		
	required)	Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.		
		Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig	Above 3 months of	f Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buffal Mithun	age (as and when	f B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:		<u> </u>	- 1		
Type of Stage & Farming Management		Agro-metrological adviso	ries		
Carp/	Harvesting and stock		- Fish harvesting can be done.		
Catfish	maintenance	- Stock fish for next year and for this practices mentioned below may be done in small scale.			
culture		- Ponds should be free maintained at 1.0 - 1.5	- Ponds should be free from unwanted vegetation and insects and water depth should be		
			vided 1-2 times a day @ 3 % body weight per day.		
			fortified with vitamins and minerals should be provided.		
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### Imphal-West

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### Weather forecast for next five days of Imphal-West (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0-28.0 °C & minimum temp. 9.0-11.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops		<u>.</u>	
Kharif Rice	Post harvesting	-	Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing	R   W   n   -	Zero tillage rape seed may be sown. Lecommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey hildew at seedling stage.  Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before owing.
Field pea	Sowing		owing may be done at a spacing of 30cm X 10-15cm. Recommended ariety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting	- 2 - h -	Sowing may be done at a spacing of 60cm X 15-20cm. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 5-30 quintals/ hectare. Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half our. Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.
Storage		fe	Clean and store the seeds in RC-seed bins after proper drying. Check or germination of seeds or fungal growth. After proper drying, store rains/ seeds in well ventilated godowns.
Horticulture Crops			9
	phos (1.5%) dust @25	kg /ha to the cauliflower	c/ cabbage, if infested by cut-worm.
Onion	Transplanting	-	50-55 days old onion nursery may be transplanted.
Garlic	Planting	-	Garlic bulblets may be planted.
Garden Pea	Land preparation	ii ii	To avoid wilt in pea or premature/ yellowing of lower leaves and accomplete filling of pods, apply Carbendazim. If the problem was there a last year, then follow crop rotation. Also, land must be ploughed roperly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting	- - le n	Transplanting of 25-30 days old seedlings may be continued.  Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid eaf curling, development of purple coloured vein due to absence of nicronutrient. If required repeat it after 10 days.
Coriander	Land preparation & sowing	b s	Select area with bright sunshine rich in organic manure for preparing eds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before owing to protect seeds from ant and other insects.  Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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Curing als (Dal	-1-\ T J		- Seed rate is 100g seeds for 100 sq. m.	
Spinach (Pala			- Well drained soil is best for growing spinach beet.	
	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.  Spacing may be maintained at 10cm x 20-25cm apart.	
	sowing		- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the	
			dose is required.	
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive	
Ollion	Thursery raising		measures against soil borne diseases.	
			- For 25 sq m area we need ½ kg seeds.	
			- check that the new sprouts/ young plants in nursery beds are not	
			damaged.	
			- 45-60 days old seedlings may be transplanted.	
Animal Scie	nces		45 00 days old seedings may be transplanted.	
*Take up m	easures to avoid mosqu		e sheds of birds and animals.	
Name of the ani	Growin stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
	groups (as and whe	n	along with glucose.	
	required)		Increase energy feed content like maize in feed.	
Sheep/ Goat	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
	age (as and when		pregnancy.	
	required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
		Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffal	o/ Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun	age (as and when	2.4.	young stock.	
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:		l	<u> </u>	
Type of Stage &		Agro-metrological advisor	ries	
Farming Carp/	Management Harvesting and stock - Fish harvesting		ne done	
Cat p/ Catfish	maintenance	<ul><li>Fish harvesting can be done.</li><li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li></ul>		
culture	mamonance		e from unwanted vegetation and insects and water depth should be	
Cuitui		maintained at 1.0 - 1.5m.		
			vided 1-2 times a day @ 3 % body weight per day.	
		- Well balanced feed fortified with vitamins and minerals should be provided.		
			4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.	



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West (14<sup>th</sup> to 17<sup>th</sup> November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

### Weather forecast for next five days of Senapati (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $23.0-25.0\,^{\circ}\text{C}$  & minimum temp.  $7.0-9.0\,^{\circ}\text{C}$ . Relative humidity may reach upto  $100\,\%$  (maximum RH) &  $46\,\%$  (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		<ul> <li>Zero tillage rape seed may be sown.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> </ul>
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	J.		, -
* Apply Chloropyrip	ohos (1.5%) dust @2	5 kg /ha to the cauliflo	ower/ cabbage, if infested by cut-worm.
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		<ul> <li>Transplanting of 25-30 days old seedlings may be continued.</li> <li>Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.</li> </ul>
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil 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 sq. m and mix thoroughly to improve soil fertility.  - Seed rate is 100g seeds for 100 sq. m.
Spinach (Palak)	Land preparation & sowing		<ul> <li>Well drained soil is best for growing spinach beet.</li> <li>Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>



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



### "Integrated Agromet Advisory Services"

Onion Nursery raising			- Apply Captan 50 WP during final land preparation as preventive		
			measures against soil borne diseases.		
			- For 25 sq m area we need ½ kg seeds.		
			- check that the new sprouts/ young plants in nursery beds are not		
			damaged.		
			- 45-60 days old seedlings may be transplanted.		
Animal Sci	ences				
*Take up 1	neasures to avoid mosqu	itoes in and around the	e sheds of birds and animals.		
Name of the ar	nimal Growth stage	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptible age groups (as and whe		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.		
	required)		Increase energy feed content like maize in feed.		
Sheep/ Goa	age (as and when	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.		
	required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.		
		Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buffa Mithun	Above 3 months of age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:	1	,			
Type of Farming	Stage & Management	Agro-metrological advisor	ries		
Carp/	Harvesting and stock	<ul> <li>Fish harvesting can be done.</li> <li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li> <li>Ponds should be free from unwanted vegetation and insects and water depth should be</li> </ul>			
Catfish	maintenance				
culture					
		maintained at 1.0 - 1.5m.			
			vided 1-2 times a day @ 3 % body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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



#### "Integrated Agromet Advisory Services"

#### MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### **Tamenglong**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}$ to $17^{th}$ November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

### Weather forecast for next five days of Tamenglong (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of 26.0-28.0 °C & minimum temp. 10.0-12.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		<ul> <li>Zero tillage rape seed may be sown.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> </ul>
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		<ul> <li>Sowing may be done at a spacing of 60cm X 15-20cm.</li> <li>Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.</li> <li>Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.</li> <li>Incubation of seeds in the sand bed for about 7-10 days for sprouting of seed is also advisable. Sow seed at about 3 inch depth.</li> </ul>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u>.</u>		
* Apply Chloropyrip	phos (1.5%) dust @25	kg/ha to the caulifle	ower/ cabbage, if infested by cut-worm.
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		<ul> <li>Transplanting of 25-30 days old seedlings may be continued.</li> <li>Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.</li> </ul>
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil 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 sq. m and mix



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



### "Integrated Agromet Advisory Services"

			thoroughly to improve soil fertility.		
Cuinant (Data	.1.\ I1		- Seed rate is 100g seeds for 100 sq. m.		
Spinach (Pala			- Well drained soil is best for growing spinach beet.		
	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.  Spacing may be maintained at 10cm x 20-25cm apart.		
	sowing		- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the		
			dose is required.		
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive		
Ollion	ruiscry raising		measures against soil borne diseases.		
			- For 25 sq m area we need ½ kg seeds.		
			- check that the new sprouts/ young plants in nursery beds are not		
			damaged.		
			- 45-60 days old seedlings may be transplanted.		
Animal Scie	nces		10 00 days old securings may be damsplanted.		
			e sheds of birds and animals.		
Name of the anim	Growth stage	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptible age		Give preventive dose of Coximar @ 1g/lit of drinking water for 7 days		
	groups (as and whe	n	along with glucose.		
	required)		Increase energy feed content like maize in feed.		
Sheep/ Goat	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
	age (as and when required)		pregnancy.		
	required)	Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.		
		Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buffalo	Above 3 months of	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in		
Mithun	age (as and when	-	young stock.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:	,	•			
Type of Farming	Stage & Management	Agro-metrological advisor	Agro-metrological advisories		
Carp/	Harvesting and stock	- Fish harvesting can l	be done.		
Catfish	maintenance	- Stock fish for next year and for this practices mentioned below may be done in small scale.			
culture		- Ponds should be free	e from unwanted vegetation and insects and water depth should be		
		maintained at 1.0 - 1.5m.			
			vided 1-2 times a day @ 3 % body weight per day.		
		- Well balanced feed f	fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### **Thoubal**

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}$ to $17^{th}$ November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

## Weather forecast for next five days of Thoubal (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $26.0-27.0\,^{\circ}\text{C}$  & minimum temp.  $9.0-11.0\,^{\circ}\text{C}$ . Relative humidity may reach upto  $100\,\%$  (maximum RH) & 58 % (minimum RH). The average wind speed may be 0-2 km/ hr during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Stage	infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		<ul> <li>Zero tillage rape seed may be sown.</li> <li>Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.</li> <li>Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.</li> </ul>
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Potato	Planting		<ul> <li>Sowing may be done at a spacing of 60cm X 15-20cm.</li> <li>Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare.</li> <li>Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half hour.</li> <li>Incubation of seeds in the sand bed for about 7-10 days for sprouting or seed is also advisable. Sow seed at about 3 inch depth.</li> </ul>
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, stor grains/ seeds in well ventilated godowns.
Horticulture Crops			·
* Apply Chloropyrip	ohos (1.5%) dust @25	5 kg /ha to the caulifle	ower/ cabbage, if infested by cut-worm.
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		<ul> <li>Transplanting of 25-30 days old seedlings may be continued.</li> <li>Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.</li> </ul>
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat soil 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 sq. m and mix



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



### "Integrated Agromet Advisory Services"

				thoroughly to improve soil fertility Seed rate is 100g seeds for 100 sq. m.	
Spinach (Pa	lak)	Land preparation & sowing		<ul> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>	
Onion	nion Nursery raising			<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> <li>For 25 sq m area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>	
Animal Sci					
				e sheds of birds and animals.	
Name of the an		Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	g	all susceptible age roups (as and when	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.	
	re	equired)		Increase energy feed content like maize in feed.	
Sheep/ Goat		Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.	
			Ectoparasite	Use Butox liq. @ 2ml/4 litres of water and wash the animal with the solution.	
			Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		Above 3 months of age (as and when	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
_			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffa Mithun	a	Above 3 months of age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
	re	equired)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:			1	·	
Type of Farming	of Stage & Management		Agro-metrological advisories		
Carp/	Harvesting and stock maintenance		- Fish harvesting can be done.		
Catfish			<ul> <li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li> <li>Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.</li> </ul>		
culture					
			- Feeds should be provided 1-2 times a day @ 3 % body weight per day.		
			<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>		
			- Apply Green AQ @	411tre/ na or time @ 200kg/ ha. Maintain good quality of pond water.	



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}$ to $17^{th}$ November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

### Weather forecast for next five days of Ukhrul (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $23.0-25.0\,^{\circ}\text{C}$  & minimum temp.  $7.0-8.0\,^{\circ}\text{C}$ . Relative humidity may reach upto 99 % (maximum RH) & 55 % (minimum RH). The average wind speed may be 2-3 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown.
			Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mencozeb @2g/kg seed for the control of white rust and downey mildew at seedling stage.  - Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before
T' 11	G		sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.
Horticulture Crops	<u> </u>		J. ¥
* Apply Chloropyrip	ohos (1.5%) dust @25	kg/ha to the cauliflo	ower/ cabbage, if infested by cut-worm.
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land preparation		- To avoid wilt in pea or premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Also, land must be ploughed properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		<ul> <li>Transplanting of 25-30 days old seedlings may be continued.</li> <li>Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of micronutrient. If required repeat it after 10 days.</li> </ul>
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Treat soil 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 sq. m and mix thoroughly to improve soil fertility.</li> <li>Seed rate is 100g seeds for 100 sq. m.</li> </ul>
Spinach (Palak)	Land preparation & sowing		<ul> <li>Well drained soil is best for growing spinach beet.</li> <li>Avoid damping off by adding Captan 50WP in the soil of bed.</li> <li>Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>



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



### "Integrated Agromet Advisory Services"

Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive	
			measures against soil borne diseases.	
			- For 25 sq m area we need ½ kg seeds.	
			- check that the new sprouts/ young plants in nursery beds are not	
			damaged.	
			- 45-60 days old seedlings may be transplanted.	
Animal Sci	ences			
			e sheds of birds and animals.	
Name of the ar	nimal Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
•	groups (as and when		along with glucose.	
	required)		Increase energy feed content like maize in feed.	
Sheep/ Goat	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
	age (as and when	Totalius	pregnancy.	
	required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the	
		1	solution.	
		Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
			while brushing the animal.	
Cattle / Buffa Mithun	age (as and when	B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in young stock.	
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:	,			
Type of	Stage &	Agro-metrological advisories		
Farming	Management			
Carp/	Harvesting and stock	- Fish harvesting can be done.		
Catfish	maintenance	- Stock fish for next year and for this practices mentioned below may be done in small scale.		
culture		- Ponds should be free from unwanted vegetation and insects and water depth should be		
		maintained at 1.0 - 1.5m.		
		- Feeds should be provided 1-2 times a day @ 3 % body weight per day.		
		<ul> <li>Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> </ul>		
		- Apply Green AQ @	411tre/ na or nine @ 200kg/ na. Maintain good quanty of pond water.	



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



#### "Integrated Agromet Advisory Services"

# MANIPUR BULLETIN 18<sup>th</sup> November, 2014

#### Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 19<sup>th</sup> to 23<sup>rd</sup> November, 2014 as given below:

# Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}$ to $17^{th}$ November, 2014)

During past four days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past four days. Maximum temperature range observed was 27.9-28.5 °C, range of minimum temperature observed was 11.1-12.4 °C, mean relative humidity observed in morning and afternoon were 76.5 % and 53.8 % respectively. The average wind speed range was 0.7-2.0 km/hr.

## Weather forecast for next five days of Bishnupur (19<sup>th</sup> to 23<sup>rd</sup> November, 2014)

There may be no rain upto Sunday. Sky may be mainly clear to partly cloudy with maximum temp. of  $26.0-27.0\,^{\circ}\text{C}$  & minimum temp.  $8.0-10.0\,^{\circ}\text{C}$ . Relative humidity may reach upto  $100\,\%$  (maximum RH) & 54 % (minimum RH). The average wind speed may be  $2\,\text{km/hr}$  during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Post harvesting		- Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- Zero tillage rape seed may be sown.
			Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds
			with Mencozeb @2g/kg seed for the control of white rust and downey
			mildew at seedling stage.
			- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before
T. 1.1	G		sowing.
Field pea	Sowing		Sowing may be done at a spacing of 30cm X 10-15cm. Recommended
Potato	Dlanting		variety - Rachana. Seed rate is 75 kg/ hectare Sowing may be done at a spacing of 60cm X 15-20cm.
rotato	Planting		- Sowing may be done at a spacing of ooch A 13-20cm.  - Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
			25-30 quintals/ hectare.
			- Treat the seed with Captan or Sixer@ 2 gm/litre of water for about half
			hour.
			- Incubation of seeds in the sand bed for about 7-10 days for sprouting of
			seed is also advisable. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops	I (1.50() I 0.00	(1 1 1 1 1 1 1	( 11
		kg/ha to the caulifle	ower/ cabbage, if infested by cut-worm.
Onion	Transplanting		- 50-55 days old onion nursery may be transplanted.
Garlic	Planting		- Garlic bulblets may be planted.
Garden Pea	Land		- To avoid wilt in pea or premature/ yellowing of lower leaves and
	preparation		incomplete filling of pods, apply Carbendazim. If the problem was there
			in last year, then follow crop rotation. Also, land must be ploughed
C 1'C	T 1 .:		properly to enable lower soil to get exposed to sun.
Cauliflower	Transplanting		- Transplanting of 25-30 days old seedlings may be continued.
			- Apply Tracel @ 300gm/sangam in 30-35days old cauliflower to avoid leaf curling, development of purple coloured vein due to absence of
			micronutrient. If required repeat it after 10 days.
Coriander	Land		- Select area with bright sunshine rich in organic manure for preparing
Corrandor	preparation &		beds. Treat soil using Dichlorovos @ 1ml/ litre of water 2-3 days before
	sowing		sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



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			thoroughly to improve soil fertility.	
Calabata (Dal	a1.) I and		- Seed rate is 100g seeds for 100 sq. m.	
Spinach (Palak)			- Well drained soil is best for growing spinach beet.	
	preparation &		- Avoid damping off by adding Captan 50WP in the soil of bed.  Spacing may be maintained at 10cm x 20-25cm apart.	
	sowing		- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the	
			dose is required.	
Onion	Nursery raising		- Apply Captan 50 WP during final land preparation as preventive	
Onion	Nuisery raising	,	measures against soil borne diseases.	
			- For 25 sq m area we need ½ kg seeds.	
			- check that the new sprouts/ young plants in nursery beds are not	
			damaged.	
			- 45-60 days old seedlings may be transplanted.	
Animal Scie	ences		45 00 days old seedings may be transplanted.	
*Take up m	neasures to avoid mosqu		e sheds of birds and animals.	
Name of the ani	Growth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry	All susceptible age		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
	groups (as and whe	en	along with glucose.	
	required)		Increase energy feed content like maize in feed.	
Sheep/ Goat	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
	age (as and when		pregnancy.	
	required)	Ectoparasite	Use Butox liq. @ 2ml/ 4 litres of water and wash the animal with the solution.	
		Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig	Above 3 months of	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
	age (as and when	Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
	required)	Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.	
Cattle / Buffal	lo/ Above 3 months of	f B.Q.	- Vaccinate against B.Q. @ 1ml orally/ sub- cutaenously especially in	
Mithun	age (as and when	2.0.	young stock.	
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:				
Type of Stage &		Agro-metrological advisories		
Farming Carp/	Management Harvesting and stock	- Fish harvasting can !	he done	
Carp/ Catfish	maintenance	<ul> <li>Fish harvesting can be done.</li> <li>Stock fish for next year and for this practices mentioned below may be done in small scale.</li> <li>Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0 - 1.5m.</li> <li>Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> </ul>		
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Culture				
		- Well balanced feed fortified with vitamins and minerals should be provided.		
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