

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



"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 13th November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Bishnupur (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-28.0\,^{\circ}\text{C}$ & minimum temp. $10.0-11.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & $62\,\%$ (minimum RH). The average wind speed may be $2\text{-}4\,\text{km/hr}$ 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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			<u>,</u>
* Apply Chloropyri	phos (1.5%) dust @2:	5 kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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Spinach bed	et	Land		- Well drained soil is best for growing spinach beet.	
(Palak)		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	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 required)		along with glucose.	
			Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	t	Above 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		age (as and when required)		pregnancy.	
			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	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
		required)	(Diarrhea)		
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
				while brushing the animal.	
Cattle / Buffa		Above 3 months of	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun		age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
		required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:	L		1		
Type of	Stage &		Agro-metrological advisor	ies	
Farming	Manage		Y		
Carp/	Harvesting and stock		- Fish harvesting can b		
Catfish	mainte			ear and for this practices mentioned below may be done in small scale.	
culture				from unwanted vegetation and insects and water depth should be	
			maintained at 1.0 - 1.5		
			- Feeds should be provided 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.		



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MANIPUR BULLETIN 14th November, 2014

Chandel

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During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Chandel (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-29.0\,^{\circ}\text{C}$ & minimum temp. $9.0-11.0\,^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 76 % (minimum RH). The average wind speed may be 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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			<u>, c</u>
* Apply Chloropyri	phos (1.5%) dust @25	kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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Spinach be	eet Land		- Well drained soil is best for growing spinach beet.		
(Palak)	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 rai	sing	- 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.		
4 1 C	•		- 45-60 days old seedlings may be transplanted.		
Animal So			1 1 (1' 1 1 ' 1		
Name of the		<u> </u>	e sheds of birds and animals.		
	or on the stange		Agro-meteorological advisories		
Poultry	All susceptible groups (as and		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days		
	required)		along with glucose.		
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
Sheep/ Goa		1 Ctallas	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
	age (as and wh required)		pregnancy.		
		Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig	Above 3 month		Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and wh required)	Coccidiai inicction	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	required)	(Diarrhea)			
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buf		1 4001010010	- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun	age (as and wh	en Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:	II.				
Type of Farming	Stage & Management	Agro-metrological advisor	ries		
Carp/	Harvesting and stock	- Fish harvesting can b	- Fish harvesting can be done.		
Catfish	maintenance		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 provided 1-2 times a day @ 3 % body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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MANIPUR BULLETIN 14th 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 15th to 19th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 13th November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Churachandpur $(15^{th} to 19^{th} November, 2014)$

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 25.0 - 27.0 °C & minimum temp. 9.0 - 10.0 °C. Relative humidity may reach upto 100 % (maximum RH) & 55 % (minimum RH). The average wind speed may be 2-5 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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			
* Apply Chloropyri	phos (1.5%) dust @2:	5 kg/ha to the cauliflo	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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Spinach be	eet Land		- Well drained soil is best for growing spinach beet.		
(Palak)	preparation	n &	- 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 ra	ising	- 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 Sc	ni ana as		- 43-00 days old seedings may be transplanted.		
		ocquitoos in and around t	he sheds of birds and animals.		
Name of the a					
	O10 // thi stage				
Poultry	All susceptibl groups (as and		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days		
	required)	Deworming	along with glucose. Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
Cl / Cl					
Sheep/ Goa	age (as and w	1 Ottilias	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
	required)	Deworming	pregnancy Give Albomic suspension @ 5ml per adult.		
D! a	Above 3 mont	<u> </u>	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
Pig	age (as and w				
	required)	Coccidiai illicction	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	•	(Diarrhea)	Demonstrate Pierre-in- situate @ 20 ml and adult animal and		
		Deworming Ticks	- Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week		
			while brushing the animal.		
Cattle / Buf		1 4601010515	- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun	age (as and wi	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:	1				
Type of Farming	Stage & Management	Agro-metrological advis	ories		
Carp/	Harvesting and stoc	k - Fish harvesting can	- Fish harvesting can be done.		
Catfish	maintenance		year and for this practices mentioned below may be done in small scale.		
culture			ee from unwanted vegetation and insects and water depth should be		
		maintained at 1.0 - 1			
			ovided 1-2 times a day @ 3 % body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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MANIPUR BULLETIN 14th November, 2014

Imphal-East

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Significant past weather for the preceding bi-weekly of Imphal - West (11th to 13th November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Imphal-East (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 – 28.0 $^{\circ}$ C & minimum temp. 10.0 – 11.0 $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 52 % (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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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			<u>,</u>
* Apply Chloropyri	phos (1.5%) dust @2:	5 kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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Spinach be	et Land		- Well drained soil is best for growing spinach beet.		
(Palak)	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	5	- 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 Sc	iences	-			
		uitoes in and around the	e sheds of birds and animals.		
Name of the a	nimal 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 who	en	along with glucose.		
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
Sheep/ Goa		f Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
	age (as and when		pregnancy.		
	required)	Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig	Above 3 months o	f Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	required)	(Diarrhea)			
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buff		f Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun	age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:					
Type of Farming	Stage & Management	Agro-metrological advisor	ries		
Carp/	Harvesting and stock	- Fish harvesting can b			
Catfish	maintenance		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 provided 1-2 times a day @ 3 % body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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Imphal-West

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Weather forecast for next five days of Imphal-West (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of $26.0-28.0\,^{\circ}\text{C}$ & minimum temp. $10.0-12.0\,^{\circ}\text{C}$. Relative humidity may reach upto $100\,\%$ (maximum RH) & 49 % (minimum RH). The average wind speed may be 2-4 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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			<u>,</u>
* Apply Chloropyri	phos (1.5%) dust @2:	5 kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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Spinach be	et Land		- Well drained soil is best for growing spinach beet.		
(Palak)	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	5	- 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 Sc	iences	-			
		uitoes in and around the	e sheds of birds and animals.		
Name of the a	nimal 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 who	en	along with glucose.		
	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
Sheep/ Goa		f Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
	age (as and when		pregnancy.		
	required)	Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig	Above 3 months o	f Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	age (as and when	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	required)	(Diarrhea)			
		Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
		Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
Cattle / Buff		f Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun	age (as and when required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
	required)	Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:					
Type of Farming	Stage & Management	Agro-metrological advisor	ries		
Carp/	Harvesting and stock	- Fish harvesting can b			
Catfish	maintenance		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 provided 1-2 times a day @ 3 % body weight per day.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 13th November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Senapati (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 23.0 $^{\circ}$ C & minimum temp. 7.0 $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-4 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of		- Land preparation may be done. Sowing may be done at a spacing of
	tubers seeds		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 at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Storage			- Clean and store the seeds in RC-seed bins after proper drying. Check
Storage			for germination of seeds or fungal growth. After proper drying, store
			grains/ seeds in well ventilated godowns.
Horticulture Crops			grams/ seeds in wen ventrated godowns.
	nhos (1.5%) dust @2	5 kg /ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land	3 kg/ha to the caumi	To avoid premature/ yellowing of lower leaves and incomplete filling of
Garuen rea	preparation		pods, apply Carbendazim. If the problem was there in last year, then
	preparation		follow crop rotation.
			Land must be ploughed properly.
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

- Seed rate is 100g seeds for 100 sq. m.



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Spinach bed	et Land			- Well drained soil is best for growing spinach beet.	
(Palak)	preparat	ion &		- Avoid damping off by adding Captan 50WP in the soil of bed.	
	sowing	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	nimal Growth st	age	Disease/ infestation	Agro-meteorological advisories	
Poultry	All suscept		Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
		groups (as and when required)		along with glucose.	
	required)		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	t Above 3 m	onths of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		age (as and when required)		pregnancy.	
	required)		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	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
	required)		(Diarrhea)		
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
				while brushing the animal.	
Cattle / Buffa			Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun	age (as and required)	l when	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
	required)		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of	Stage &		Agro-metrological advisor	ies	
Farming	Management		T7' 1 1 .' 1		
Carp/	Harvesting and stock		- Fish harvesting can be done.		
Catfish	maintenance			ear and for this practices mentioned below may be done in small scale.	
culture				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.		
			- 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.		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 13th November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Tamenglong (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 $^{\circ}$ C & minimum temp. 9.0 $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 2-5 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting
			of seed is also advisible. 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	<u>J.</u>		
* Apply Chloropyri	phos (1.5%) dust @2	5 kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land		To avoid premature/ yellowing of lower leaves and incomplete filling of
	preparation		pods, apply Carbendazim. If the problem was there in last year, then
			follow crop rotation.
			Land must be ploughed properly.
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
G 1 1	Т 1		micronutrient. If required repeat it after 10 days.
Coriander	Land preparation &		- 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		sowing to protect seeds from ant and other insects.
	Sowing		- 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.



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Spinach bed	inach beet Land			- Well drained soil is best for growing spinach beet.	
(Palak)		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	nimal G	rowth stage	Disease/ infestation	Agro-meteorological advisories	
Poultry		ll susceptible age	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days	
		groups (as and when required)		along with glucose.	
	re		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Sheep/ Goa	t Al	bove 3 months of	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of	
		age (as and when required)		pregnancy.	
	re		Deworming	- Give Albomic suspension @ 5ml per adult.	
Pig		Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.	
			Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.	
	re		(Diarrhea)		
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.	
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week	
				while brushing the animal.	
Cattle / Buffa		Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.	
Mithun			Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.	
	16		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.	
Fishery:					
Type of Stage &		Agro-metrological advisories			
Farming		anagement			
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.		
			- 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.		



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"Integrated Agromet Advisory Services"

MANIPUR BULLETIN 14th 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 15th to 19th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West $(11^{th}$ to 13^{th} November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Thoubal (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 27.0 $^{\circ}$ C & minimum temp. 10.0 $^{\circ}$ C. Relative humidity may reach upto 100 % (maximum RH) & 70 % (minimum RH). The average wind speed may be 2 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 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 of tubers seeds		 - Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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			
* Apply Chloropyri	phos (1.5%) dust @2:	5 kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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Spinach bed	pinach beet Land			- Well drained soil is best for growing spinach beet.		
(Palak)	preparation	1 &		- 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 ra	ising		- 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	nimal Growth stage	9	Disease/ infestation	Agro-meteorological advisories		
Poultry	All susceptibl		Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days		
	groups (as and	d when		along with glucose.		
	required)	required)	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
Sheep/ Goa	t Above 3 mon	Above 3 months of age (as and when required)	Tetanus	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
				pregnancy.		
	required)		Deworming	- Give Albomic suspension @ 5ml per adult.		
Pig		Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
	•		Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	required)		(Diarrhea)			
			Deworming	- Deworm using Piperazine citrate @ 30 ml per adult animal once.		
			Ticks	Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week		
				while brushing the animal.		
Cattle / Buffa		Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun			Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
	required)		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.		
Fishery:						
Type of Stage &			Agro-metrological advisories			
Farming	Management	Management Company of the Company of				
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. 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 14th 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 15th to 19th November, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 13th November, 2014)

During past three days sky was mainly clear to partly cloudy. **No** rainfall was recorded during past three days. Maximum temperature range observed was 28.7-29.4 °C, range of minimum temperature observed was 11.5-13.2 °C, mean relative humidity observed in morning and afternoon were 82.6 % and 52.0 % respectively. The average wind speed range was 1.2-1.5 km/hr.

Weather forecast for next five days of Ukhrul (15th to 19th November, 2014)

There may be no rain upto Wednesday. Sky may be mainly clear to partly cloudy with maximum temp. of 22.0 $^{\circ}\text{C}$ & minimum temp. 6.0 - 9.0 $^{\circ}\text{C}$. Relative humidity may reach upto 99 % (maximum RH) & 63 % (minimum RH). The average wind speed may be 3-4 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/	Sowing		- Zero tillage rape seed may be sown.
mustard			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 of tubers seeds		- Land preparation may be done. 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 at about 7-10 days for sprouting of seed is also advisible. 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	<u>'</u>		
* Apply Chloropyri	phos (1.5%) dust @2:	5 kg/ha to the caulifle	ower/ cabbage infested by cut-worms.
Garden Pea	Land preparation		To avoid premature/ yellowing of lower leaves and incomplete filling of pods, apply Carbendazim. If the problem was there in last year, then follow crop rotation. Land must be ploughed properly.
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 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.



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



"Integrated Agromet Advisory Services"

Spinach be	eet Land		- Well drained soil is best for growing spinach beet.		
(Palak)	preparation of	&	- 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 rais	ing	- 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 Sc	ni ara as		- 43-00 days old seedings may be transplanted.		
		cauitoes in and around th	e sheds of birds and animals.		
Name of the a		Disease/ infestation	Agro-meteorological advisories		
	orow the stange				
Poultry	All susceptible groups (as and		Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days		
	required)	Deworming	along with glucose. Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.		
Cl / Cl					
Sheep/ Goa	age (as and whe	1 Ctarras	- In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of		
	required)	Deworming	pregnancy Give Albomic suspension @ 5ml per adult.		
D! a	Above 3 month		Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.		
Pig	age (as and whe				
	required)	Coccidiai illicction	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	•	(Diarrhea)	Daniero Diagrapia aituata @ 20 ml ann adult animal ann		
		Deworming Ticks	- Deworm using Piperazine citrate @ 30 ml per adult animal once. Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week		
			while brushing the animal.		
Cattle / Buf		1 4001010010	- Give Tolzan-F @30 ml/ 100 kg body weight.		
Mithun	age (as and whe required)	Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.		
	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 b	- 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.		
			- Well balanced feed fortified with vitamins and minerals should be provided.		
		- Apply Green AQ @	- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.		