



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st October, 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Churachandpur (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 27.0 – 29.0 °C & minimum temp. 12.0 – 14.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 45 % (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			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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MANIPUR BULLETIN

21st October, 2014

Imphal-East

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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Imphal-East (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 29.0 °C & minimum temp. 13.0 – 14.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 45 % (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			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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MANIPUR BULLETIN

21st October, 2014

Imphal-West

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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Imphal-West (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 27.0 – 29.0 °C & minimum temp. 12.0 – 14.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 4-5 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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MANIPUR BULLETIN

21st October, 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Senapati (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 25.0 – 27.0 °C & minimum temp. 10.0 – 12.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		<ul style="list-style-type: none"> - In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing field pea may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			<ul style="list-style-type: none"> - 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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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		<ul style="list-style-type: none"> - 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.



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			- check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrимazole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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21st October, 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 22nd to 26th October, 2014 as given below:

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Weather forecast for next five days of Tamenglong (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 27.0 – 30.0 °C & minimum temp. 12.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

Name of the crop	Stage	Pest and disease infestation	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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



“Integrated Agromet Advisory Services”

			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st October, 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Thoubal (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 30.0 °C & minimum temp. 13.0 – 15.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 49 % (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	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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



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			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

(I. Meghachandra Singh)
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**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st October, 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Ukhrul (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 24.0 – 26.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 49 % (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			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		<ul style="list-style-type: none"> - In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		<ul style="list-style-type: none"> - Land preparation for sowing field pea may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
Storage			<ul style="list-style-type: none"> - 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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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		<ul style="list-style-type: none"> - 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.



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



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			- check that the new sprouts/ young plants in nursery beds are not damaged. - 45-60 days old seedlings may be transplanted.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrимazole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st October, 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Bishnupur (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 30.0 °C & minimum temp. 13.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (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			
Kharif Rice	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



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			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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



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



“Integrated Agromet Advisory Services”

MANIPUR BULLETIN

21st October, 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 22nd to 26th October, 2014 as given below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 20th October, 2014)

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18th to morning of 19th Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

Weather forecast for next five days of Chandel (22nd to 26th October, 2014)

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 30.0 °C & minimum temp. 12.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 52 % (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	Maturity & harvesting		<ul style="list-style-type: none"> - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet have turned yellow. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ mustard	Sowing		- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Land preparation		- Land preparation for sowing field pea may be started.
Potato	Land preparation		- Land preparation for planting potato may be started.
Soybean	Maturity to harvesting		Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.
Groundnut	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Blackgram	Maturity & harvesting		Harvest mature crops.
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			
Coriander	Land preparation & sowing		<ul style="list-style-type: none"> - Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		<ul style="list-style-type: none"> - Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning 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.



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Manipur Centre, Lamphelpat, Imphal - 795 004**



“Integrated Agromet Advisory Services”

			- 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.
Cabbage/ Cauliflower	Nursery		- Sowing of late season crop may be done. - Care should be taken for the young seedlings below 20 days old.
Tomato/ Chilli/ Capsicum	Nursery		Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.

Animal Sciences

Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding. - Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.			
Poultry	All susceptible age groups (as and when required)	Coccidiosis	Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
		Litter management	Open the hessian cloth hanging on the wall and cross ventilation must be provided. Stir the litter material regularly.
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.
Pig	Above 3 months of age (as and when required)	Skin infection	Give Ivermectin (Indectin tab.) @ 10mg/33kg body weight.
		Coccidial infection (Diarrhea)	Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		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 / Buffalo/ Mithun	Above 3 months of age (as and when required)	Fasciolosis	- Give Tolzan-F @ 30 ml/ 100 kg body weight.
		Deworming	Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.
		Ticks/ Wounds	Topicure Spray may be used twice daily on the affected parts.

Fishery:

Type of Farming	Stage	Management	Agro-metrological advisories
Carp/ Catfish culture	Grow – out/ nurseries		- Fish harvesting can be started. - 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. - To stock fish for next year above practices may be done in small scale.
Paddy cum fish culture	Water management		- Fish harvesting can be started. - Maintained 1.0 m water depth of the trenches in paddy field. - Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.

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